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Ph. G., Maryland College of Pharmacy, 1888; *Pharmacist, Johns Hopkins Hospital.*

HUGH H. YOUNG, M. D., *Instructor in Genito-Urinary Diseases.*
A. B. and A. M., University of Virginia, 1893, and M. D., 1894; Assistant Resident Surgeon, Johns Hopkins Hospital, 1896-98. 1005 N. Charles St.

ELIZABETH HURDON, M. D., *Assistant in Gynecology.* 4 E. Preston St.
M. D., Trinity University (Toronto), 1895; *Assistant in Gynecology, Johns Hopkins Hospital.*

HENRY O. REIK, M. D., *Assistant in Ophthalmology and Otology.*
M. D., University of Maryland, 1891; *Assistant in Ophthalmology and Otology, Johns Hopkins Dispensary.* 5 W. Preston St.

OTTO G. RAMSAY, M. D., *Instructor in Gynecology.* 511 Cathedral St.
M. D., University of Virginia, 1891; Resident Gynecologist, Johns Hopkins Hospital, 1897-98.

GUY C. LEE, PH. D., *Instructor in History.* 1707 Bolton St.
LL. B., University of North Carolina, 1894; A. B. and LL. M., Dickinson College, 1895; Fellow, Johns Hopkins University, 1897-98, and Ph. D., 1898.

WILLIAM G. MACCALLUM, M. D., *Assistant in Pathology.*
A. B., University of Toronto, 1894; M. D., Johns Hopkins University, 1897.
Johns Hopkins Hospital.

JOHN B. WHITEHEAD, A. B., *Instructor in Electricity.* 2000 Maryland Av.
A. B., Johns Hopkins University, 1898.

GILMAN A. DREW, PH. D., *Assistant in Zoology.* 502 W. Lafayette Av.
S. B., Iowa State University, 1890; Fellow, Johns Hopkins University, 1897-98, Ph. D., 1898, and Bruce Fellow, 1898.

LEWIS E. JEWELL, *Assistant in Practical Photography and Spectroscopy.*
1122 Mosher St.

MURRAY P. BRUSH, PH. D., *Instructor in Romance Languages.* The St. Paul.
A. B., Princeton University, 1894; Ph. D., Johns Hopkins University, 1898; Instructor in Ohio State University, 1898-99.

PERCY M. DAWSON, M. D., *Assistant in Physiology.* 1640 E. Fayette St.
A. B., Johns Hopkins University, 1894, M. D., 1898, and Fellow, 1898-99.

NORMAN B. GWYN, M. B., *Demonstrator in Clinical Microscopy.*
M. B., University of Toronto, 1896. Johns Hopkins Hospital.

LOUIS P. HAMBURGER, M. D., *Assistant in Medicine.* 1401 Eutaw Place.
A. B., Johns Hopkins University, 1893, and M. D., 1897.

THOMAS MCCRAE, M. B., *Instructor in Medicine.* Johns Hopkins Hospital.
M. B., King's College (Toronto), 1895; *First Assistant Resident Physician, Johns Hopkins Hospital.*

EUGENE L. OPIE, M. D., *Second Assistant in Pathology.* 219 W. Monument St.
A. B., Johns Hopkins University, 1893, M. D., 1897, and Fellow, 1898-99.

MERVIN T. SUDLER, PH. D., *Assistant in Anatomy.* 849 N. Eutaw St.
S. B., Maryland Agricultural College, 1894; Ph. D., Johns Hopkins University, 1899.

MORRIS C. SUTPHEN, PH. D., *Instructor in Latin.* 718 N. Howard St.
A. B., Princeton University, 1890, and A. M., 1893; Ph. D., Johns Hopkins University, 1899.

HENRY S. WEST, PH. D., *Assistant in English.* 2438 Maryland Av.
A. B., Johns Hopkins University, 1893, Fellow, 1898-99, and Ph. D., 1899.

HENRY MCE. KNOWER, PH. D., *Instructor in Anatomy.* 3 W. Biddle St.
A. B., Johns Hopkins University, 1890, Fellow, 1894-95, Bruce Fellow, 1895-96, Ph. D., 1896; Instructor in Williams College, 1896-97.

WILLIAM M. MACKDERMOTT, *Director of Physical Training.*
1627 Eutaw Place.

GEORGE E. BARNETT, A. B., *Assistant in Economics.* 1205 McCulloh St.
A. B., Randolph-Macon College, 1891.

CHARLES R. BARDEEN, M. D., *Associate in Anatomy.* 412 N. Broadway.
A. B., Harvard University, 1893; M. D., Johns Hopkins University, 1897.

HARVEY W. CUSHING, M. D., *Associate in Surgery.* Johns Hopkins Hospital.
A. B., Yale University, 1891; A. M. and M. D., Harvard University, 1895; *Resident Surgeon, Johns Hopkins Hospital.*

GEORGE W. DOBBIN, M. D., *Associate in Obstetrics.* 923 N. Charles St.
A. B., Johns Hopkins University, 1891; M. D., University of Maryland, 1894; *Resident Obstetrician, Johns Hopkins Hospital.*

N. ERNEST DORSEY, PH. D., *Associate in Physics.* Annapolis Junction.
A. B., Johns Hopkins University, 1893, Fellow, 1896-97, and Ph. D., 1897.

DUNCAN S. JOHNSON, PH. D., *Associate in Botany.* 930 Madison Av.
S. B., Wesleyan University, 1892; Fellow, Johns Hopkins University, 1896-97, Ph. D., 1897, and Bruce Fellow, 1897-98.

WALTER JONES, PH. D., *Associate in Physiological Chemistry and Toxicology.*
A. B., Johns Hopkins University, 1888, and Ph. D., 1891; Professor of Analytical Chemistry, Purdue University, 1892-95. 2305 N. Charles St.

PHILIP OGDEN, PH. D., *Associate in Romance Languages.* 1534 Park Av.
A. B., Cornell University, 1891; Ph. D., Johns Hopkins University, 1897.

GEORGE B. SHATTUCK, PH. D., *Associate in Physiographic Geology.*
S. B., Amherst College, 1892; Fellow, Johns Hopkins University, 1896-97, and Ph. D., 1897.
Sudbrook Park.

S. EDWIN WHITEMAN, *Instructor in Drawing.* 201 W. Madison St.
École des Beaux-Arts, Paris.

MELVIN BRANDOW, A. B., *Assistant Librarian.* 1506 N. Gilmor St.
A. B., Rutgers College, 1888; Fellow, Johns Hopkins University, 1892-93.

ALBERT C. CRAWFORD, M. D., *Assistant in Pharmacology.* 1009 N. Caroline St.
M. D., College of Physicians and Surgeons (Balt.), 1893.

HARRY L. WILSON, PH. D., *Instructor in Latin.* 311 Dolphin St.
A. B., Queen's University (Ont.), 1887, and A. M., 1888; Fellow, Johns Hopkins University, 1895, and Ph. D., 1896.

FRANK R. SMITH, M. D., *Instructor in Medicine.* 1126 Cathedral St.
A. M., University of Cambridge (England), 1882; M. D., University of Maryland, 1891; *Chief of Medical Clinic, Johns Hopkins Dispensary.*

SIDNEY M. CONE, M. D., *Assistant in Surgical Pathology.* 1616 Eutaw Place.
A. B., Johns Hopkins University, 1890; M. D., University of Pennsylvania, 1893; Assistant Resident Surgeon, Johns Hopkins Hospital, 1894-95.

H. BARTON JACOBS, M. D., *Instructor in Medicine.* 3 W. Franklin St.
A. B., Harvard University, 1883, M. D., 1887, and Assistant in Botany, 1883-85.

STEWART L. PATON, M. D., *Assistant in Clinical Neurology.*
213 W. Monument St.
A. B., Princeton University, 1886, and A. M., 1889; M. D., College of Physicians and Surgeons (N. Y.), 1889; Assistant Attending Physician, Bay View Asylum.

OLIVER L. FASSIG, PH. D., *Instructor in Meteorology.* 1534 Mt. Royal Av.
S. B., Ohio State University, 1892; Ph. D., Johns Hopkins University, 1899; U. S. Weather Bureau.

NORMAN MACL. HARRIS, M. B., *Assistant in Bacteriology.*
M. B., University of Toronto, 1894. 1020 N. Broadway.

JESSE W. LAZEAR, M. D., *Assistant in Clinical Microscopy.* 835 Park Av.
A. B., Johns Hopkins University, 1889; M. D., College of Physicians and Surgeons (N. Y.) 1892; Assistant Resident Physician, Johns Hopkins Hospital, 1895-96.

J. LEE WALZ, *Assistant in Pharmacy.* 743 Dolphin St.
Ph. G., Maryland College of Pharmacy, 1888; *Pharmacist, Johns Hopkins Hospital.*

HUGH H. YOUNG, M. D., *Instructor in Genito-Urinary Diseases.*
A. B. and A. M., University of Virginia, 1893, and M. D., 1894; Assistant Resident Surgeon, Johns Hopkins Hospital, 1896-98. 1005 N. Charles St.

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M. D., Trinity University (Toronto), 1895; *Assistant in Gynecology, Johns Hopkins Hospital.*

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M. D., University of Maryland, 1891; *Assistant in Ophthalmology and Otology, Johns Hopkins Dispensary.* 5 W. Preston St.

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M. D., University of Virginia, 1891; Resident Gynecologist, Johns Hopkins Hospital, 1897-98.

GUY C. LEE, PH. D., *Instructor in History.* 1707 Bolton St.
LL. B., University of North Carolina, 1894; A. B. and LL. M., Dickinson College, 1895; Fellow, Johns Hopkins University, 1897-98, and Ph. D., 1898.

WILLIAM G. MACCALLUM, M. D., *Assistant in Pathology.*
A. B., University of Toronto, 1894; M. D., Johns Hopkins University, 1897.
Johns Hopkins Hospital.

JOHN B. WHITEHEAD, A. B., *Instructor in Electricity.* 2000 Maryland Av.
A. B., Johns Hopkins University, 1898.

GILMAN A. DREW, PH. D., *Assistant in Zoology.* 502 W. Lafayette Av.
S. B., Iowa State University, 1890; Fellow, Johns Hopkins University, 1897-98, Ph. D., 1898, and Bruce Fellow, 1898.

LEWIS E. JEWELL, *Assistant in Practical Photography and Spectroscopy.*
1122 Mosher St.

MURRAY P. BRUSH, PH. D., *Instructor in Romance Languages.* The St. Paul.
A. B., Princeton University, 1894; Ph. D., Johns Hopkins University, 1898; Instructor in Ohio State University, 1898-99.

PERCY M. DAWSON, M. D., *Assistant in Physiology.* 1640 E. Fayette St.
A. B., Johns Hopkins University, 1894, M. D., 1898, and Fellow, 1898-99.

NORMAN B. GWYN, M. B., *Demonstrator in Clinical Microscopy.*
M. B., University of Toronto, 1896. Johns Hopkins Hospital.

LOUIS P. HAMBURGER, M. D., *Assistant in Medicine.* 1401 Eutaw Place.
A. B., Johns Hopkins University, 1893, and M. D., 1897.

THOMAS MCCRAE, M. B., *Instructor in Medicine.* Johns Hopkins Hospital.
M. B., King's College (Toronto), 1895; *First Assistant Resident Physician, Johns Hopkins Hospital.*

EUGENE L. OPIE, M. D., *Second Assistant in Pathology.* 219 W. Monument St.
A. B., Johns Hopkins University, 1893, M. D., 1897, and Fellow, 1898-99.

MERVIN T. SUDLER, PH. D., *Assistant in Anatomy.* 849 N. Eutaw St.
S. B., Maryland Agricultural College, 1894; Ph. D., Johns Hopkins University, 1899.

MORRIS C. SUTPHEN, PH. D., *Instructor in Latin.* 718 N. Howard St.
A. B., Princeton University, 1890, and A. M., 1893; Ph. D., Johns Hopkins University, 1899.

HENRY S. WEST, PH. D., *Assistant in English.* 2438 Maryland Av.
A. B., Johns Hopkins University, 1893, Fellow, 1898-99, and Ph. D., 1899.

HENRY MCE. KNOWER, PH. D., *Instructor in Anatomy.* 3 W. Biddle St.
A. B., Johns Hopkins University, 1890, Fellow, 1894-95, Bruce Fellow, 1895-96, Ph. D., 1896; Instructor in Williams College, 1896-97.

WILLIAM M. MACKDERMOTT, *Director of Physical Training.*
1627 Eutaw Place.

GEORGE E. BARNETT, A. B., *Assistant in Economics.* 1205 McCulloh St.
A. B., Randolph-Macon College, 1891.

LECTURERS, 1899-1900.

On the Turnbull Foundation.

Professor C. H. HERFORD, Litt. D., of the University College of Wales.
Eight lectures on *English Poetry.*

On the Levering Foundation.

Rev. W. H. P. FAUNCE, D. D., President of Brown University.
Three lectures on *The Use and the Abuse of the Bible.*

On the Donovan Foundation.

Professor C. T. WINCHESTER, A. M., of Wesleyan University.
Six lectures on *English Literature.*

On the Williams Foundation.

Professor W. C. BRÖGGER, PH. D., of the University of Christiania.
Seven lectures on the *Principles of Geology.*

The Founders of the Republic.

Professor JAMES SCHOULER, LL. D., of Boston University, Author of "History of the United States under the Constitution."
Four biographical lectures on the *Founders of the Republic.*

The Hague Peace Conference.

FREDERICK W. HOLLS, Esq., of New York.
Two lectures on the *International Conference at the Hague,* 1899.

Psychology and Education.

President G. STANLEY HALL, PH. D., of Clark University.
Ten lectures on *Psychology and Education.*

English Literature.

Professor ALBERT H. SMYTH, of Philadelphia.
Eighteen lectures on *Modern English Literature.*

Lecturers before various departments of the University.

Medical School.

ALEXANDER C. ABBOTT, M. D., Professor of Hygiene and Director of the Laboratory of Hygiene, University of Pennsylvania.

JOHN S. BILLINGS, M. D., LL. D., Surgeon, U. S. Army, and late Librarian of the Surgeon-General's Office; Director of the New York Public Library.

ROBERT FLETCHER, M. D., M. R. C. S. (Eng.), Surgeon, U. S. Army.

CH. WARDELL STILES, PH. D., Zoologist of the Bureau of Animal Industry, U. S. Department of Agriculture.

Systematic Botany.

BOLLING W. BARTON, M. D., of Baltimore. Pikesville.

Geology.

Professor CLEVELAND ABBE, PH. D., LL. D., of the U. S. Weather Bureau.
Meteorology.

L. A. BAUER, Ph. D., of the U. S. Coast and Geodetic Survey.
Terrestrial Magnetism.

BAILEY WILLIS, C. E., M. E., of the U. S. Geological Survey.
Stratigraphic and Structural Geology.

Romance Languages.

Professor FREDERICK M. WARREN, PH. D., of Adelbert College.
French Literature.

History, Politics, and Economics.

JEFFREY R. BRACKETT, PH. D., of Baltimore. 10 W. Madison St.
Public Aid, Charities, and Correction.

JAMES M. CALLAHAN, PH. D., of Baltimore. 2327 Barclay St.
American Diplomatic History.

EDWARD D. DURAND, Ph. D., of Leland Stanford, Jr. University.
Principles of Taxation.

ADDITIONAL ASSISTANTS FOR THE CURRENT YEAR.

The following names are those of students who render more or less service to the University in the departments named. In the enumeration, as in former years, such persons are not counted as members of the academic staff:

V. H. BASSETT, A. B.—*Physiol. Chemistry.*
F. R. BLAKE, A. B.—*Semitic Lang.*
H. CANTER, A. M.—*Chemistry.*
C. E. CASPARI, A. B.—*Chemistry.*
W. C. CURTIS, A. M.—*Biology.*
N. S. FERRY, PH. B.—*Anatomy.*
H. A. FOWLER, S. B.—*Pathol. and Bacteriol.*
W. E. GOULD, A. B.—*Spanish.*
K. J. GRIMM, PH. D.—*Semitic Lang.*
H. H. HINDSHAW, S. B.—*Geology.*
J. HOFMANN.—*German.*
W. B. HUFF, A. M.—*Physics.*
A. KARSTED, A. B.—*Anatomy.*
A. S. LOEVENHART, M. S.—*Physiol. Chem.*
W. T. LONGCOPE, A. B.—*Pathol. & Bacteriol.*
R. D. MILLER, A. B.—*English.*
H. W. OCHSNER, A. B.—*Anatomy,*
H. PENDER, A. B.—*Physics.*
H. F. PERKINS, A. B.—*Y. M. C. A.*
L. M. POTTS, A. B.—*Physics.*
A. P. ROMINE, A. B.—*Geology.*
W. ROSENAU, A. B.—*Semitic Lang.*
X. TEILLARD, B. ÈS LETT.—*French.*
C. E. WATERS, PH. D.—*Chemistry.*

Internes and Externes of the Johns Hopkins Hospital and Dispensary.

The following graduates of the Johns Hopkins Medical School are Resident House Officers in the Johns Hopkins Hospital:

Edward Erle Brownell, M. D.
Ph. B., Yale University, 1895; M. D., Johns Hopkins University, 1899.

Humphrey Warren Buckler, M. D.
A. B., Johns Hopkins University, 1895, and M. D., 1899.

Rufus Ivory Cole, M. D.
S. B., University of Michigan, 1896; M. D., Johns Hopkins University, 1899.

John Staige Davis, M. D.
Ph. B., Yale University, 1895; M. D., Johns Hopkins University, 1899.

Charles Phillips Emerson, M. D.
A. B., Amherst College, 1894; M. D., Johns Hopkins University, 1899.

Joseph Erlanger, M. D.
S. B., University of California, 1895; M. D., Johns Hopkins University, 1899.

Henry Harris, M. D.
A. B., Leland Stanford Jr. University, 1895; M. D., Johns Hopkins University, 1899.

John Arthur Luetscher, M. D.
S. B., University of Wisconsin, 1895; M. D., Johns Hopkins University, 1899.

Jacob Hall Pleasants, Jr., M. D.
A. B., Johns Hopkins University, 1895, and M. D., 1899.

John Albertson Sampson, M. D.
A. B., Williams College, 1895; M. D., Johns Hopkins University, 1899.

Sarah Delia Wyckoff, M. D.
S. B., Wellesley College, 1894; M. D., Johns Hopkins University, 1899.

John Lawrence Yates, M. D.
Ph. B., Yale University, 1894; S. B., University of Wisconsin, 1895; M. D., Johns Hopkins University, 1899.

The following were appointed Externes of the Hospital and Dispensary:

Philip Saffery Evans, Jr., M. D.
A. B., Yale University, 1895; M. D., Johns Hopkins University, 1899.

Richard Holden Follis, Jr., M. D.
Ph. B., Yale University, 1895; M. D., Johns Hopkins University, 1899.

Louis Williams Ladd, M. D.
A. B., Yale University, 1895; M. D., Johns Hopkins University, 1899.

Frank Allemong Lupton, M. D.
S. B., Alabama Polytechnic Institute, 1891; M. D., Johns Hopkins University, 1899.

Frank Worthington Lynch, M. D.
A. B., Adelbert College, 1895; M. D., Johns Hopkins University, 1899.

Paul Octavius Owsley, M. D.
Ph. B., Yale University, 1895; M. D., Johns Hopkins University, 1899.

Sylvan Rosenheim, M. D.
A. B., Johns Hopkins University, 1895, and M. D., 1899.

Halbert Severin Steensland, M. D.
S. B., University of Wisconsin, 1895; M. D., Johns Hopkins University, 1899.

Edgar Randolph Strobel, M. D.
A. B., Johns Hopkins University, 1895, and M. D., 1899.

Frederick Herman Verhoeff, M. D.
Ph. B., Yale University, 1895; M. D., Johns Hopkins University, 1899.

GRADUATE STUDENTS.

Fellows by Courtesy.

Benjamin William Arnold, Jr. Bedford City, Va. 840 *N. Eutaw St.*
A. B., Randolph-Macon College, 1891; Ph. D., Johns Hopkins University, 1896. *Economics.*

Rev. Joseph Cullen Ayer, Jr. Boston, Mass. 1313 *Madison Av.*
B. D., Episcopal Theological School, Cambridge, 1887; Ph. D., University of Leipsig, 1893. *History.*

John Davis Batchelder. Faribault, Minn. 1223 *Madison Av.*
A. B., University of Vermont, 1894; LL. B., University of Minnesota, 1896. *Romance Languages.*

John Darlington Carter. West Chester, Pa. 906 *McCulloh St.*
S. B., Haverford College, 1899, and Fellow of Haverford College. *Chemistry and Mineralogy.*

John Bascom Crenshaw. Baltimore. 938 *Madison Av.*
A. M., Randolph Macon College, 1881; Ph. D., Johns Hopkins University, 1893, and late Instructor. *German.*

William Elford Gould. New York City. 935 *McCulloh St.*
A. B., Columbia University, 1879. *Romance Languages.*

George Oscar James. Bowers Hill, Va. 906 *McCulloh St.*
A. B., Johns Hopkins University, 1895, Fellow, 1898-99, and Ph. D., 1899. *Physics.*

James William Kern. Alexandria, Va. 714 *Park Av.*
University of Virginia, 1881; Ph. D., Johns Hopkins University, 1899. *Greek.*

Edward Lindon Mellus. Baltimore. 10 *E. Chase St.*
M. D., Jefferson Medical College, 1878. *Anatomy.*

Alfred William Milden. Cornwall, Ont. 1113 *Bolton St.*
A. B., University of Toronto, 1888; Fellow, Johns Hopkins University, 1898-99, and Ph. D., 1899. *Greek.*

Jens Anderson Ness. Red Wing, Minn. 1122 *McCulloh St.*
A. B., Luther College, 1894, and A. M., 1890: Fellow, Johns Hopkins University, 1896-98. *Sanskrit, Greek, and Latin.*

Charles William Sommerville. White Post, Va. 2020 *N. Calvert St.*
A. B. and S. B., Hampden-Sidney College, 1890, and A. M., 1896; Union Theological Seminary (Va.), 1895; Ph. D., Johns Hopkins University, 1899; formerly Professor in Hampden-Sidney College. *History.*

Campbell Easter Waters, Baltimore. *Walbrook.*
A. B., Johns Hopkins University, 1895, and Ph. D., 1899. *Chemistry.*

(13)

Adam T. Bruce Fellowship in Biology.

Caswell Grave. Monrovia, Ind. 1125 *Argyle Av.*
S. B., Earlham College, 1895; Ph. D., Johns Hopkins University, 1899. *Zoology.*

William S. Rayner Fellowship in Semitic Languages.

Karl Josef Grimm. Baltimore. 429 *N. Gilmor St.*
Fellow, Johns Hopkins University, 1898-99, and Ph. D., 1899.

FELLOWS.

GEORGE ERNEST BARNETT. Mocksville, N. C. 1205 *McCulloh St.*
A. B., Randolph-Macon College, 1891. *Economics, History, and Politics.* [*Resigned, March, 1900.*]

FRANK RINGGOLD BLAKE. Baltimore. 2106 *Oak St.*
A. B., Johns Hopkins University, 1897. *Semitic Languages.*

WILLIAM MARTIN BLANCHARD. Hertford, N. C. 1205 *McCulloh St.*
A. B., Randolph-Macon College, 1894, and A. M., 1897. *Chemistry, Physics, and Geol.*

CHARLES EDWARD CASPARI. Baltimore. 1129 *Harlem Av.*
A. B., Johns Hopkins University, 1896. *Chemistry, Geology, and Mineralogy.* [*Resigned without entering on the fellowship.*]

LUTHER PFAHLER EISENHART. York, Pa. 1111 *Madison Av.*
A. B., Pennsylvania College, 1896. *Mathematics, Physics, and Astronomy.*

HERBERT BALDWIN FOSTER. Baltimore. 18 *E. Centre St.*
A. B., Harvard University, 1895. *Greek, Sanskrit, and Latin.*

WILLIAM LINWOOD FOUSHEE. Roxboro, N. C. 1217 *Madison Av.*
A. M., Wake Forest College, 1894. *Greek, Latin, and Sanskrit.*

CLYDE CHEW GLASCOCK. Buckland, Va. 209 *E. Preston St.*
University of Virginia, 1892. *German, French, and Latin.*

LAWRENCE EDMONDS GRIFFIN. Hamline, Minn. 1217 *McCulloh St.*
A. B. and Ph. B., Hamline University, 1895. *Zoology, Physiology, and Botany.*

SIVERT N. HAGEN. Hagan, Minn. 1126 *McCulloh St.*
A. B., Luther College, 1896. *English, German, and French.*

JOSEPH CAWDELL HERRICK. University of Virginia. 209 *E. Preston St.*
A. B., University of Virginia, 1896. *Physiology, Chemistry, and Physics.*

JULIAN HUGUENIN. Charleston, S. C. 1211 *Madison Av.*
A. B., Charleston College, 1895. *English, German, and French.*

WALTER HULLIHEN. Staunton, Va. 1228 *St. Paul St.*
A. B. and A. M., University of Virginia, 1896. *Latin, Greek, and German.*

CHARLES AUGUST KRAUS. Hays City, Kan. 411 *W. Hoffman St.*
S. B., University of Kansas, 1898. *Physics, Mathematics, and Chemistry.*

HARRY TAYLOR MARSHALL. Baltimore. 213 *W. Lanvale St.*
A. B., Johns Hopkins University, 1894, and M. D., 1898. *Pathology.*

JOHN CHARLES OLSEN. Galesburg, Ill. 534 *N. Gilmor St.*
A. B., Knox College, 1890, and A. M., 1893; Ph. D., Johns Hopkins University, 1900. *Chemistry, Physics, and Mathematics.*

HERBERT MEREDITH REESE. Baltimore. 2132 *Oak St.*
A. B., Johns Hopkins University, 1897. *Physics, Mathematics, and Physical Chemistry*

GEORGE BURR RICHARDSON. New York City. 1223 *Druid Hill Av.*
S. B., Harvard University, 1895. *Geology.*

RICHARD BURTON ROWE. Clarksville, N. Y. 1717 *Madison Av.*
Ph. B., Union College, 1896. *Geology, Mineralogy, and Biology.*

JAMES EUSTACE SHAW. Florence, Italy. 1314 *McCulloh St.*
A. B., Johns Hopkins University, 1896. *Romance Languages.*

CHARLES CLINTON WEAVER. Greensboro, N. C. 1124 *McCulloh St.*
A. B., Trinity College (N. C.), 1895. *History, Politics, and Jurisprudence.*

Philosophical Students.

Herbert Thompson Archibald. Halifax, N. S. 1612 *Mt. Royal Av.*
A. B., Dalhousie University, 1897, and A. M., 1898. *Greek, Latin, and Sanskrit.*

Francis Marion Austin. Washington, D. C. *Washington.*
A. B., Ohio Wesleyan University, 1887, and A. M., 1890. *Latin and Greek.*

James Thomas Barrett. South Salem, O. 1113 *Bolton St.*
A. B., Wooster University, 1895. *Physics, Mathematics, and Chemistry.*

George Carlton Beck. Williamsport, Pa. 606 *N. Charles St.*
S. B., Williamsport Dickinson Seminary, 1897. *Chemistry.*

Arthur Bibbins. Baltimore. 2307 *N. Charles St.*
Ph. B., Albion College, 1887. *Geology.*

Robert Montgomery Bird. Petersburg, Va. 303 *E. Lanvale St.*
A. B., Hampden-Sidney College, 1897. *Chemistry.*

Homer Van Valkenburg Black. Atlanta, Ga. 906 *McCulloh St.*
A. B., University of Georgia, 1896. *Chemistry, Mineralogy, and Geology.*

Irving Hall Blackwell. Broadrun, Va. 750 *N. Eutaw St.*
A. B., Randolph-Macon College, 1895. *Latin.*

Jay Allan Bonsteel. Baltimore. 1021 *McCulloh St.*
S. B., Cornell University, 1896. *Geology and Chemistry.*

Rev. William Walker Brander. Baltimore. 1321 *Madison Av.*
Virginia Military Inst., 1887; Virginia Theological Sem., 1891. *History and Politics.*

George Dobbin Brown. Howard County. *St. Denis.*
A. B., Johns Hopkins University, 1895. *English.*

Joshua Robert Callaway Brown. Penn Laird, Va. *Govanstown.*
A. B., Hampden-Sidney College, 1895. *Chemistry, Physics, and Mathematics.*

Benjamin Palmer Caldwell. New Orleans, La. 919 *McCulloh St.*
A. B., Tulane University, 1893, B. E., 1895, and Ch. E., 1897. *Chemistry, Physical Chemistry, and Physics.*

Rev. William Caldwell. Baltimore. 301 *E. North Av.*
A. M., Southwestern Presbyterian University, 1888; Princeton Theological Seminary, 1891. *Semitic Languages.*

Hall Canter. Baltimore. 2315 *Madison Av.*
A. B., Randolph-Macon College, 1892, and A. M., 1897. *Chemistry.*

Howard Vernon Canter. Cantersburg, Va. 1024 *McCulloh St.*
A. B., Washington and Lee University, 1896. *Latin, French, and Spanish.*

William Asbury Case. Baltimore. 412 *E. Randall St.*
S. B., St. John's College, 1894, and A. M., 1897; M. S., Columbian University, 1895. *Chemistry and Physics.*

Victor John Chambers. Rochester, N. Y. 1122 *Madison Av.*
S. B., University of Rochester, 1895. *Chemistry.*

Hardee Chambliss. Selma, Ala. 1504 *Linden Av.*
Virginia Military Institute, 1894; M. S., Vanderbilt University, 1899. *Chemistry, Geology, and Physics.*

Friend Ebenezer Clark. New Martinsville, W. Va. 1124 *McCulloh St.*
S. B., West Virginia University, 1896. *Chemistry, Geology, and Mineralogy.*

Arthur Byron Coble. Lykens, Pa. 1230 *McCulloh St.*
A. B., Pennsylvania College, 1897. *Mathematics, Astronomy, and Physics.*

WILLIAM CHAMBERS COKER. Wilmington, N. C. 906 *McCulloh St.*
S. B., South Carolina College, 1894. *Biology and Geology.*

HENRY AUGUSTUS CONVERSE. Harrisonburg, Va. *Govanstown.*
A. B., Hampden-Sidney College, 1893. *Mathematics and Physics.*

FRANK LINLEY CRITCHLOW. East Northfield, Mass. 416 *W. Hoffman St.*
A. B., Princeton University, 1896, and A. M., 1897. *Romance Languages.*

CHARLES WILLIAM REMSBERG CRUM. Jefferson. 303 *W. Lanvale St.*
A. B., Johns Hopkins University, 1884; M. D., University of Maryland, 1888. *Mathematics.*

ALBERT EUGENE CURDY. Orchard Lake, Mich. 1211 *Madison Av.*
A. B., University of Kansas, 1885. *Romance Languages.*

WINTERTON CONWAY CURTIS. The Dalles, Ore. 1128 *McCulloh St.*
A. B., Williams College, 1897, and A. M., 1898. *Zoology, Physiology, and Palaeontology.*

EDGAR RHODES DAWSON. Baltimore. 8 *E. Madison St.*
M. E., Stevens Institute of Technology, 1888. *Romance Languages.*

JAMES MCDOWELL DOUGLAS. Gastonia, N. C. 1212 *McCulloh St.*
A. B., Davidson College, 1893, and A. M., 1894. *Chemistry, Physics, and Mathematics.*

Rev. GEORGE DRENFORD. Baltimore. *Highland Park.*
University of Breslau, 1879; M. D., College of Physicians and Surgeons (Balt.), 1888. *Sanskrit, etc.*

WILLIAM SIDNEY DREWRY. Fayetteville, N. C. 1126 *McCulloh St.*
A. B., Ph. B., and A. M., University of Virginia, 1893. *History, Economics, and Politics.*

JAMES EDWIN DUERDEN. Kingston, Jamaica. 1112 *N. Eutaw St.*
Associate, Royal College of Science, London, 1889. *Zoology, Paleontology, and Physiology.*

HAMILTON JAMES ECKENRODE. Fredericksburg, Va.
A. B., Fredericksburg College, 1898. *English and History.* 708 *W. Lexington St.*

CHARLES KEYSER EDMUNDS. Baltimore. 1413 *McCulloh St.*
A. B., Johns Hopkins University, 1897. *Physics, Mathematics, and Electricity.*

PHILIP HOWARD EDWARDS. Baltimore. 2013 *E. Chase St.*
A. B., St. John's College, 1898. *Latin, German, and Greek.*

JACOB EMBRY. Waxahachie, Texas. 1214 *McCulloh St.*
B. Lit., Kentucky University, 1897, and M. Lit., 1899. *English, German, and French.*

ARTHUR WOOLSEY EWELL. Washington, D. C. 1128 *McCulloh St.*
A. B., Yale University, 1897, and Ph. D., 1899. *Physics.*

ARTHUR HENRY EWING. Ludhiana, India. 1214 *Madison Av.*
A. B., Washington and Jefferson College, 1887; Western Theological Seminary, 1890. *Sanskrit, Philosophy, and Arabic.*

JOHN AUGUSTINE ENGLISH EYSTER. Baltimore. 1700 *Linden Av.*
S. B., Maryland Agricultural College, 1899. *Zoology, Botany, and Physiology.*

JAMES MARION FARR. Union, S. C. 1212 *McCulloh St.*
A. B., Davidson College, 1894, and A. M., 1895. *English, German, and French.*

FERDINAND COLQUHOUN FISHER. Baltimore. 746 *W. North Av.*
A. B., Johns Hopkins University, 1899. *History and Politics.*

Rev. THEODORE CLINTON FOOTE. Cleveland, O. 816 *N. Eutaw St.*
A. B., Racine College, 1880, and A. M., 1883; S. T. B., General Theological Seminary (N. Y.), 1884. *Latin, Greek, and Hebrew.*

EDDY BURKE FOSNOCHT. Baltimore. 342 *W. Biddle St.*
A. B., Johns Hopkins University, 1899. *German, English, and French.*

JOSEPH CHRISTIE WHITNEY FRAZER. Lexington, Ky. 1217 *Madison Av.*
S. B., Kentucky State College, 1897, and M. S., 1898. *Chemistry, Physics, and Electricity.*

FRANCIS LEJAU FROST. Charleston, S. C. 816 *N. Eutaw St.*
General Theological Seminary (N. Y.), 1897. *Romance Languages.*

WIGHTMAN WELLS GARNER. Darlington, S. C. 853 *N. Eutaw St.*
A. B., South Carolina College, 1896. *Chemistry, Geology, and Physics.*

NORMAN EVERETT GILBERT. Middletown, Conn.
A. B., Wesleyan University, 1895, and A. M., 1896. *Windsor, near Walbrook.*
Physics, Mathematics, and Astronomy.

GRAVES GRIFFITH. Payne's Depot, Ky. 220 *W. Franklin St.*
A. B., Central University, 1891. *Latin, English, and French.*

Rev. PINCKNEY LAFAYETTE GROOME. Greensboro, N. C. 1120 *Bolton St.*
A. B., Trinity College (N. C.), 1877. *History.*

ROSCOE GUERNSEY. East Cobleskill, N. Y. 1122 *McCulloh St.*
A. B., Union College, 1896, and A. M., 1899. *Greek, Latin, and Sanskrit.*

Rev. ADOLPH GUTTMACHER. Baltimore. 1833 *Linden Av.*
A. B., University of Cincinnati, 1887; Ph. D., Johns Hopkins University, 1900. *Hebrew, Arabic, and Philosophy.*

ELLIOT SNELL HALL. Jamestown, N. Y. 917 *McCulloh St.*
A. B., Amherst College, 1896. *Chemistry, Physical Chemistry, and Geology.*

FRANK ARNOLD HANCOCK. Baltimore. 823½ *W. Lombard St.*
A. B., Johns Hopkins University, 1897. *Chemistry.*

HUGH SISSON HANNA. Baltimore. 1037 *Harlem Av.*
A. B., Johns Hopkins University, 1899. *History and Politics.*

CEBERN DODD HARRIS. Raleigh, N. C. 1204 *McCulloh St.*
S. B., North Carolina College of Agriculture, 1897. *Chemistry, Geology, and Biology.*

JAMES WARNER HARRY. Dublin. 906 *McCulloh St.*
A. B., Georgetown College (Ky.), 1899. *History, Economics, and Politics.*

PHILIP WARNER HARRY. Pylesville. 906 *McCulloh St.*
A. B., Johns Hopkins University, 1898. *Romance Languages.*

YUKIMASA HATTORI. Sagaken, Japan. 420 *W. Franklin St.*
Tokyo College of Science, 1898. *Politics.*

EUGENE DE FOREST HEALD. Washington, D. C. 902 *St. Paul St.*
A. B., Johns Hopkins University, 1897. *English.*

FRED. COLE HICKS. Tipton, Iowa. 1104 *Myrtle Av.*
Ph. B., Cornell College, 1896. *German and French.*

HENRY H. HINDSHAW. Baltimore. 2316 *N. Calvert St.*
S. B., Chicago School of Science, 1891. *Geology.*

Rev. JULIUS HOFMANN. Baltimore. 1029 *W. Lanvale St.*
University of Giessen. *German, French, and Philosophy.*

DAVID WILBUR HORN. Carlisle, Pa. 2257 *Madison Av.*
A. B., Dickinson College, 1897. *Chemistry, Geology, and Physics.*

WILLIAM BASHFORD HUFF. Boscobel, Wis. 315 *W. Hoffman St.*
A. B., University of Wisconsin, 1889; A. M., University of Chicago, 1896. *Physics, Chemistry, and Electricity.*

ROBERT EDMUND HUMPHREYS. Salem, Va. 1405 *Madison Av.*
A. B. and A. M., Emory and Henry College, 1889. *Chemistry, Geology, and Mineralogy.*

JOHN GALE HUN. Albany, N. Y. 1114 *McCulloh St.*
A. B., Williams College, 1899. *Mathematics.*

EVERETT CLARENCE JOHNSON. Selbyville, Del. 904 *N. Carey St.*
A. B., Delaware College, 1899. *History and Politics.*

JAMES BOYD KENNEDY. Yorkville, S. C. 113 *W. Mulberry St.*
A. B., Erskine College, 1898. *English.*

NORTON ADAMS KENT. Baltimore. 1210 *McCulloh St.*
A. B., Yale University, 1895. *Physics.*

HARRY AMMON KIESS. Warrenville, Pa. 1028 *McCulloh St.*
A. B., Central Pennsylvania College, 1899. *Mathematics.*

BRADFORD KILBY. Suffolk, Va. 1213 *McCulloh St.*
A. M., Randolph-Macon College, 1897. *History.*

JOHN HENDRICKEN KING. Baltimore. 1529 *Bolton St.*
A. B., Johns Hopkins University, 1899. *Biology and Chemistry.*

STEPHEN HENRY KING. Baltimore. 1529 *Bolton St.*
M. D., Harvard University, 1872. *Chemistry and Physics.*

FRANCIS JOSEPH KIRBY. Baltimore. *St. Joseph's Hospital.*
M. D., University of Maryland, 1892. *Biology.*

HERMAN KURRELMEYER. Baltimore. 1051 *S. Eutaw St.*
A. B., Johns Hopkins University, 1899. *German.*

CHARLES FOWLER LINDSAY. Halifax, N. S. 1028 *McCulloh St.*
A. B., Dalhousie University, 1899. *Chemistry, Physical Chemistry, and Physics.*

CLAUDE MEEK LOTSPEICH. Knoxville, Tenn. 1122 *Madison Av.*
A. B., University of Tennessee, 1899. *German and French.*

JOHN MARION LOVE. Petersburg, Va. 1130 *Argyle Av.*
A. B. and B. L., Hampden-Sidney College, 1899. *Biology, Chemistry, and Physics.*

ROBERT EDWARD LOVING. Wilmington, Va. 1214 *McCulloh St.*
A. B., Richmond College, 1896, and A. M., 1898. *Physics, Mathematics, and Astronomy.*

HENRY JOHN LUCKE. Baltimore. 519 *N. Carey St.*
A. B., Johns Hopkins University, 1898. *Physics, Mathematics, and Astronomy.*

CHARLES EDWARD LYON. Mt. Wilson. 101 *E. Preston St.*
A. B., Johns Hopkins University, 1897. *German and Latin.*

GEORGE CURTIS MARTIN. Adams, Mass. 1030 *N. Eutaw St.*
S. B., Cornell University, 1898. *Geology.*

WILLIAM ELEJIUS MARTIN. Havana, Ala. 1126 *McCulloh St.*
A. M., Southern University (Ala.), 1898. *History and Politics.*

CHARLES BENNETT MCGUIRE. Johnstown, Pa. 1204 *McCulloh St.*
A. B., St. Stephen's College, 1899. *Greek, Latin, and History of Philosophy.*

CHARLES RANALD MCINNES. Vankleek Hill, Ont. 1113 *Bolton St.*
A. M., Queen's University (Ont.), 1896. *Mathematics, Physics, and Astronomy.*

Rev. WILLIAM BRUCE MCPHERSON. Middle River. *Middle River.*
A. B., Hobart College, 1892, and A. M., 1895. *Semitic Languages.*

JOHN FRANKLIN MEYER. Penn Hall, Pa. 306 *E. Twenty-third St.*
A. B., Franklin and Marshall College, 1894, and A. M., 1897. *Physics, Chemistry, and Mathematics.*

GEORGE WILES MIDDLEKAUFF. Leitersburg. 906 *McCulloh St.*
A. B., Franklin and Marshall College, 1891, and A. M., 1894. *Physics, Mathematics, and Chemistry.*

LOUIS WARDLAW MILES. Baltimore. 514 *Cathedral St.*
A. B., Johns Hopkins University, 1894; M. D., University of Maryland, 1897. *English, German, and French.*

RAYMOND DURBIN MILLER. Baltimore. 23 *Chestnut Av.*
A. B., Johns Hopkins University, 1898. *English and History.*

JOSEPH HAINES MOORE. Wilmington, O. 916 *McCulloh St.*
A. B., Wilmington College, 1898. *Physics, Mathematics, and Astronomy.*

ALFRED JAMES MORRISON. Farmville, Va. 1217 *Madison Av.*
A. B., Hampden-Sidney College, 1895. *Romance Languages.*

CHARLES ALFRED MOSEMILLER. New Albany, Ind. 921 *McCulloh St.*
A. B., Indiana University, 1890. *Romance Languages.*

ROLAND JESSUP MULFORD. Friendsville, Pa. 1002 *Cathedral St.*
A. B., Harvard University, 1893, and LL. B., 1896. *Politics and History.*

WILLIAM STARR MYERS. Asheville, N. C. 1217 *McCulloh St.*
A. B., University of North Carolina, 1897. *History, Economics, and Politics.*

WILLIAM DALTON NEAL. Salt Lake City, Utah. 1130 *McCulloh St.*
S. B., University of Utah, 1892, and M. S., 1894. *Geology.*

MARSHAL LEE NININGER. Roanoke City, Va. 1123 *McCulloh St.*
A. B., University of Virginia, 1898, and A. M., 1899. *Latin, Greek, and Sanskrit.*

LOUIS ALEXANDER PARSONS. Burlington, Iowa. 315 *W. Hoffman St.*
A. B., Iowa State University, 1895, and A. M., 1899. *Physics, Mathematics, and Chemistry.*

AUSTIN MCDOWELL PATTERSON. Xenia, O. 2511 *W. North Av.*
A. B., Princeton University, 1897. *Chemistry, Mineralogy, and Geology.*

HAROLD PENDER. Baltimore. 1210 *McCulloh St.*
A. B., Johns Hopkins University, 1898. *Physics, Mathematics, and Electricity.*

HENRY FARNHAM PERKINS. Burlington, Vt. 1204 *McCulloh St.*
A. B., University of Vermont, 1898. *Zoology, Physiology, and Physics.*

EDWIN DANA PIERCE. Newton Centre, Mass. 917 *McCulloh St.*
A. B., Amherst College, 1892. *Physics.*

GEORGE FREDERICK PORTER. Baltimore. 1401 *W. Fayette St.*
E. E., Lafayette College, 1899. *Chemistry.*

LOUIS MAXWELL POTTS. Canonsburg, Pa. 1128 *McCulloh St.*
A. B., Washington and Jefferson College, 1896. *Physics, Chemistry, and Mathematics.*

THOMAS LINDLEY PYLE. Pylesville. 516 *N. Eutaw St.*
A. B., Johns Hopkins University, 1898. *Greek, Latin, and Sanskrit.*

ISRAEL EUCLID RABINOVITCH. Baltimore. 1131 *Argyle Av.*
University of Pennsylvania. *Mathematics, Physics, and History of Philosophy.*

GEORGE LOVIC PIERCE RADCLIFFE. Lloyds. *Sudbrook Park.*
A. B., Johns Hopkins University, 1897. *History, Economics, and Politics.*

GEORGE RAGLAND. Richmond, Va. 1214 *McCulloh St.*
A. B., Richmond College, 1896. *Greek, Latin, and Sanskrit.*

LEE RANEY. Danville, Ky. 1024 *McCulloh St.*
A. B., Centre College, 1897. *Greek and Latin.*

ALBERT MOORE REESE. Baltimore. 1435 *Bolton St.*
A. B., Johns Hopkins University, 1892. *Zoology, Palæontology, and Botany.*

CHARLES MALLORY REMSEN. Baltimore. 12 *E. Biddle St.*
A. B., Johns Hopkins University, 1899. *Chemistry and Biology.*

CHARLES BARR ROBERTSON. New Wilmington, Pa. 1221 *Druid Hill Av.*
A. B., Westminster College (Pa.), 1893, and S. B., 1896. *Chemistry and Physics.*

ALEXANDER PICKENS ROMINE. Morgantown, W.Va. 1024 *McCulloh St.*
A. B., West Virginia University, 1899. *Geology, Mineralogy, and Biology.*

Rev. WILLIAM ROSENAU. Baltimore. 1527 *Linden Av.*
A. B., University of Cincinnati, 1888; Hebrew Union College of Cincinnati, 1889. *Hebrew, Arabic, and Philosophy.*

GEORGE WISE RUSSELL. Onancock, Va. 916 *McCulloh St.*
A. B., Randolph-Macon College, 1892, and A. M., 1893. *Chemistry, Physics, and Mathematics.*

CHARLES CARROLL SCHENCK. Baltimore. 1007 *St. Paul St.*
A. B., Johns Hopkins University, 1893. *Physics, Mathematics, and Chemistry.*

JOHN PHILIP SCHNEIDER. Cooperstown, N. Y. 1228 *McCulloh St.*
A. B., Wittenberg College, 1896; A. M., Columbia University, 1898. *English, German, and History.*

CARL HERMAN SCHULTZ. New York City. 515 *Cathedral St.*
A. B., Yale University, 1897. *Chemistry.*

STANLEY DEVRIES SHIPLEY. West Friendship. 1701 *Bolton St.*
A. B., Dickinson College, 1899. *Chemistry.*

DANIEL NAYLOR SHOEMAKER. Fair Haven, O. 906 *McCulloh St.*
S. B., Earlham College, 1894. *Biology and Physiology.*

WARD WEAVER SIMMONS. Brooklyn, N. Y. 1218 *Madison Av.*
S. B., Brooklyn Polytechnic Institute, 1897. *Chemistry, Physics, and Biology.*

ARTHUR WHITMORE SMITH. Middletown, Conn. 916 *Argyle Av.*
S. B., New Hampshire College, 1893; M. S., Wesleyan University, 1895. *Physics, Physical Chemistry, and Mathematics.*

CHARLES SIDNEY SMITH. Princeton, N. J. 1205 *McCulloh St.*
A. B., Princeton University, 1888, and A. M., 1891. *Latin, Greek, and Sanskrit.*

VICTOR EDGEWORTH SMITH. Baltimore. 22 *E. Mt. Vernon Place.*
A. B., Johns Hopkins University, 1898. *History and Politics.*

CHARLES SNAVELY. Massillon, O. 1214 *McCulloh St.*
A. B., Otterbein University, 1894. *History, Economics, and Social Science.*

EDWIN ALBERT SPILMAN. Baltimore. 815 *N. Arlington Av.*
A. B., Johns Hopkins University, 1899. *Greek.*

PERCY GOLDTHWAITE STILES. Newtonville, Mass.
S. B., Massachusetts Institute of Technology, 1897. *Physiology, Zoology, and Physiological Chemistry.*

RENÉ DE M. TAVEAU. Baltimore. 117 *W. Lafayette Av.*
A. B., Johns Hopkins University, 1899. *Chemistry.*

IVAN AUGUSTUS THORSON. Rock Dell, Minn. 1223 *Druid Hill Av.*
A. B., Luther College, 1895. *History, Politics, and History of Philosophy.*

Rev. FRANCIS ANTONY TONDORF, S. J. Baltimore. *Loyola College.*
Ph. D., Woodstock College, 1895. *Physics, Mathematics, and Biology.*

CHARLES AUGUSTINE TORREY, JR. Boston, Mass. 1206 *McCulloh St.*
S. B., Massachusetts Institute of Technology, 1899. *Chemistry, Physical Chemistry, and Mathematics.*

ARTHUR BERTRAM TURNER. Baltimore. 1031 *McCulloh St.*
A. B., Johns Hopkins University, 1892. *Physics.*

HARRISON WILSON VICKERS, JR. Chestertown.
A. B., Delaware College, 1899. *Chemistry, Biology, and German.*

S. JOSEPH VISVANATH. Kathirkama, Ceylon. *St. Joseph's Seminary.*
University of Calcutta. *Sanskrit, etc.*

ELISHA CHISHOLM WALDEN. Cincinnati, O. 1014 *N. Broadway.*
A. B., Ohio Wesleyan University, 1892; M. S., University of Cincinnati, 1897. *Physiology, Pathology, and Chemistry.*

RICHARD HENRY WATKINS. Warrenton, N. C. 1130 *Argyle Av.*
A. B., Hampden-Sidney College, 1895. *Mathematics.*

ROBERT FREDERICK WHITEHEAD. Lovingston, Va. 1223 *Madison Av.*
Ph. B., University of Virginia, 1892, A. B. and A. M., 1893. *Physics and Chemistry.*

IRA ENGLER WHITEHILL. Unionville. 1102 *W. Lafayette Av.*
A. B., Maryland Agricultural College, 1899. *Biology, Chemistry, and German.*

WALTON CRUMP WICKER. Elon College, N. C. 506 *Baker St.*
A. B., Elon College, 1893, and A. M., 1895; A. B., University of North Carolina, 1895. *Philosophy, Hebrew, and Arabic.*

EDWARD SEYMOUR WOODRUFF. New York City. 8 *W. Preston St.*
A. B., Yale University, 1899. *Zoology and Botany.*

FREDERICK BENNETT WRIGHT. Oberlin, O. 504 *N. Broadway.*
S. B., Oberlin College, 1897. *Geology.*

KIRABURO YAMAGUCHI. Tokyo, Japan. 420 *W. Franklin St.*
Tokio College of Science, 1891. *Chemistry.*

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ATTENDANTS ON SINGLE COURSES.

History and Economics.

WALTER MARSHALL KRAGER. Baltimore. *The Condon.*
A. B., Johns Hopkins University, 1899.

Mathematics.

DAVID EMRICH WEGLEIN. Baltimore. 1327 *W. Baltimore St.*
A. B., Johns Hopkins University, 1897.

Romance Languages.

ALBERT GAD STIDMAN. Baltimore. 610 *Mosher St.*
A. B., Johns Hopkins University, 1898.

XAVIER TEILLARD. Washington, D. C. *Washington.*
B. ès Lett., University of France, 1873.

KARL EPHRAIM WESTON. Baltimore. 1710 *Park Av.*
A. B., Williams College, 1896, and A. M., 1898.

Semitic Languages.

JAMES TEACKLE DENNIS. Baltimore. 1008 *N. Calvert St.*
Lafayette College.

WILLIAM HAWKINS LITSINGER. Baltimore. 1416 *N. Gilmor St.*
A. B., Western Maryland College, 1893; B. D., Westminster (Md.) Theological Seminary, 1894.

(7)

MEDICAL STUDENTS.

CANDIDATES FOR THE DEGREE OF M. D.

Fourth Year.

JOSEPH AKERMAN. Cartersville, Ga. 1727 *Fairmount Av.*
A. B., University of Georgia, 1894, and Graduate Student, 1895-96.

HERBERT WILLIAMS ALLEN. Oakland, Cal. 810 *N. Broadway.*
S. B., University of California, 1896.

MABEL FLETCHER AUSTIN. Minneapolis, Minn.
S. B., University of Minnesota, 1893. *Mt. Holly, near Walbrook.*

ALMA EMERSON BEALE. Schaghticoke, N. Y. 129 *Jackson Place.*
A. B., Wellesley College, 1891; Marine Biological Laboratory, Wood's Holl, 1893.

MILTON BETTMANN. Cincinnati, O. 812 *N. Broadway.*
A. B., Harvard University, 1897.

EVELYN BRIGGS. Sacramento, Cal. 1042 *N. Eden St.*
A. B., Leland Stanford Jr. University, 1896.

LAWRASON BROWN. Casanova, Va. 1718 *E. Madison St.*
A. B., Johns Hopkins University, 1895.

HERMAN BRÜLLE. Fredericksburg, Va. 1016 *N. Broadway.*
A. B. and S. B., Hampden-Sidney College, 1895; Graduate Student, Johns Hopkins University, 1895-96.

CURTIS FIELD BURNAM, JR. Frankfort, Ky. 1128 *McCulloh St.*
A. B., Central University (Ky.), 1895; Graduate Student, Johns Hopkins University, 1895-96.

ELEANOR SARAH CHACE. Fall River, Mass. 144 *Jackson Place.*
S. B., Wellesley College, 1894.

ARTHUR SMITH CHITTENDEN. Binghamton, N. Y. 132 *Jackson Place.*
A. B., Yale University, 1896.

HENRY ASBURY CHRISTIAN. Lynchburg, Va. 804 *N. Broadway.*
A. B. and A. M., Randolph-Macon College, 1895, and Graduate Student, 1895-96.

WILLIAM REMSHART DANCY. Savannah, Ga. 802 *N. Broadway.*
S. B., University of Georgia, 1896.

AUGUSTUS HARTJE EGGERS. Allegheny, Pa. 802 *N. Broadway.*
Ph. B., Yale University, 1896.

HENRY COURTNEY EVANS. Youngstown, O. 802 *N. Howard St.*
A. B., Adelbert College, 1896.

ROSE FAIRBANK. Hatfield, Mass. 313 *N. Broadway.*
A. B., Smith College, 1895.

CLARENCE B. FARRAR. Cattaraugus, N. Y. 413 *N. Charles St.*
A. B., Harvard University, 1896; Harvard Medical School, 1896-97.

ARTHUR LAWRENCE FISHER. San Francisco, Cal. 126 *Jackson Place.*
S. B., University of California, 1896.

WILLIAM ALEXANDER FISHER, JR. Baltimore. 8 *W. Mt. Vernon Place.*
A. B., Princeton University, 1896.

HOWARD FLETCHER. Warrenton, Va. 1731 *Fairmount Av.*
A. B., Randolph-Macon College, 1895, and Graduate Student, 1895-96.

JOSEPH MARSHALL FLINT. Chicago, Ill. *Govanstown.*
S. B., University of Chicago, 1895

WILLIAM PATRICK HEALY. Bridgeport, Conn. 810 *N. Broadway.*
Ph. B., Yale University, 1896.

WILLIAM FAITHFUL HENDRICKSON. Baltimore. 236 *N. Carey St.*
A. B., Johns Hopkins University, 1896.

ALBION WALTER HEWLETT. San Francisco, Cal. 806 *N. Broadway.*
S. B., University of California, 1895; Cooper Medical College, 1895-96; University of Chicago, Summer of 1897.

WILLIAM CRISSEY KELLOGG. New Canaan, Conn. 806 *N. Broadway.*
A. B., Yale University, 1896.

PRESTON KYES. North Jay, Me. 1737 *Jefferson St.*
A. B., Bowdoin College, 1896.

LEONA LEBUS. Los Angeles, Cal. 1014 *N. Broadway.*
S. B., Wellesley College, 1889.

WARREN HARMON LEWIS. Oak Park, Ill. 1757 *Jefferson St.*
S. B., University of Michigan, 1894, and Graduate Student, 1894-96.

HARRY WILSON LITTLE. Evansville, Ind. 422 *N. Broadway.*
S. B., Wabash College, 1896.

ELLEN LOUISE LOWELL. Calais, Me. 811 *N. Broadway.*
A. B., Leland Stanford Jr. University, 1896.

JOHN BRUCE MACCALLUM. Dunnville, Ont. 1757 *Jefferson St.*
A. B., University of Toronto, 1896.

MARY WILBUR MARVELL. Fall River, Mass. 144 *Jackson Place.*
S. B., Wellesley College, 1894.

CLARA R. MELTZER. New York City. 118 *Jackson Place.*
A. B., Barnard College, Columbia University, 1896.

CLELIA DUEL MOSHER. Palo Alto, Cal. 811 *N. Broadway.*
A. B., Leland Stanford Jr. University, 1893, and A. M., 1894.

HANNAH GLIDDEN MYRICK. Dorchester, Mass. 129 *Jackson Place.*
A. B., Smith College, 1896.

EDWARD SPILLER OLIVER. Baltimore. [*Absent.*]
A. B., Johns Hopkins University, 1895.

RICHARD FOSTER RAND. Meriden, Conn. 1707 *Fairmount Av.*
Ph. B., Yale University, 1895, and Graduate Student, 1895-96.

DOROTHY M. REED. Leyden, N. Y. 715 *St. Paul St.*
B. L., Smith College, 1895; Graduate Student, Mass. Institute of Technology, 1895-96.

GLANVILLE YEISLEY RUSK. Baltimore. 2000 *E. Baltimore St.*
A. B., Johns Hopkins University, 1896.

FLORENCE RENA SABIN. Denver, Colo. 129 *Jackson Place.*
S. B., Smith College, 1893, and Assistant in Zoology, 1895-96.

WILLIAM FRANCIS MATTINGLY SOWERS. Washington, D. C.
A. B., Princeton University, 1896. 1757 *Jefferson St.*

ELLEN APPLETON STONE. Providence, R. I. 122 *Jackson Place.*
A. B., Radcliffe College, Harvard University, 1895; A. M., Brown University, 1896.

MORTIMER WARREN. Cumberland Mills, Me. 1020 *N. Broadway.*
A. B., Bowdoin College, 1896.

JOHN MONTGOMERY WEST. Baltimore. 2438 *Maryland Av.*
A. B., Johns Hopkins University, 1896.

PAUL GERHARDT WOOLLEY. Chicago, Ill. 1421 *McCulloh St.*
S. B., University of Chicago, 1896.

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Third Year.

ALEXANDER MONTAGUE ATHERTON. Honolulu, Hawaii. 122 *Jackson Place.*
A. B., Wesleyan University (Conn), 1897.

FREDERICK HARRY BAETJER. Winchester, Va. 615 *Park Av.*
A. B., Johns Hopkins University, 1897.

WILLIAM DWIGHT BALDWIN. Haiku, Hawaii. 707 *N. Broadway.*
A. B., Yale University, 1897.

JOHN MCWILLIAMS BERRY. Peterboro, N.Y. 1640 *E. Fayette St.*
S. B., Cornell University, 1897.

WALTER HERBERT BLAKESLEE. Coatesville, Pa. 1032 *N. Broadway.*
A. B., Amherst College, 1897; Student of Medicine, University of Pennsylvania, 1897–98.

HORACE DECHAMPS BLOOMBERGH. Easton, Pa. 1024 *N. Broadway.*
A. B., Lafayette College, 1897.

THOMAS RICHMOND BOGGS. Athens, Ga. 203 *W. Lanvale St.*
S. B., University of Georgia, 1896, and Graduate Student, 1896–97; Student of Medicine, University of Pennsylvania, 1897–98.

JOHN ROBERT BOSLEY. Baltimore. 1403 *Park Av.*
A. B., Western Maryland College, 1896; Graduate Student, Johns Hopkins University, 1896–97.

CHARLES HENRY BUNTING. La Crosse, Wis. 244 *W. Lanvale St.*
S. B., University of Wisconsin, 1896, and Fellow, 1896–97.

JOEL IVES BUTLER. Meriden, Conn. 112 *Jackson Place.*
Ph. B., Yale University, 1897.

HARRY WARDELL CAREY. Stamford, Conn. 1814 *N. Broadway.*
A. B., Yale University, 1897.

WILLIAM MACK CHOWNING. Rock Island, Ill. 615 *St. Paul St.*
S. B., Knox College, 1894; A. B., Johns Hopkins University, 1895.

ROBERT THORNTON COMER. James, Ala. 1938 *McElderry St.*
A. B., University of Alabama, 1896; Graduate Student, Johns Hopkins University, 1896–97.

GUY LEARTUS CONNOR. Detroit, Mich. 1640 *E. Fayette St.*
A. B., Williams College, 1897.

RAY CONNOR. Detroit, Mich. 1640 *E. Fayette St.*
A. B., Williams College, 1897.

GEORGE SILAS DRAKE, JR. St. Louis, Mo. 1705 *Fairmount Av.*
A. B., Yale University, 1897.

ADELAIDE DUTCHER. Madison, Wis. 1923 *Jefferson St.*
S. B., University of Wisconsin, 1897.

HENRY ATWOOD FOWLER. Minneapolis, Minn. 1014 *N. Broadway.*
S. B., University of Minnesota, 1895; University of Chicago, Summer term, 1896.

FREDERICK PARKER GAY. Boston, Mass. 935 *St. Paul St.*
A. B., Harvard University, 1897.

NEIL DUNCAN GRAHAM. Falls Church, Va. 602 *N. Charles St.*
A. B., Johns Hopkins University, 1897.

GARDNER WELLS HALL. Newton, Mass. 1005 *N. Charles St.*
A. B., Harvard University, 1896.

LOUIS VIRGIL HAMMAN. Baltimore. 2500 *Madison Av.*
A. B., Rock Hill College, 1896; Graduate Student, Johns Hopkins University, 1896-97.

ROLLAND FREDERICK HASTREITER. Madison, Wis. 104 *Jackson Place.*
S. B., University of Wisconsin, 1897.

JOSEPH HENRY HATHAWAY. Grinnell, Iowa. 615 *St. Paul St.*
A. B., Iowa College, 1894; A. B., Harvard University, 1896, and A. M., 1897.

JAMES MORLEY HITZROT. McKeesport, Pa. *Govanstown.*
A. B., Princeton University, 1897.

GERRY ROUNDS HOLDEN. Baltimore. 1716 *N. Broadway.*
A. B., Yale University, 1897.

EDWARD HICKS HUME. Bombay, India. 707 *N. Broadway.*
A. B., Yale University, 1897.

WILLIAM BERNARD JOHNSTON. Washington, D.C. 1005 *N. Charles St.*
A. B., Harvard University, 1897.

BURT BRONSON KAUFFMAN. St. Louis, Mo. 118 *Jackson Place.*
A. B., Yale University, 1897.

HARRY M. KAUFMAN. Washington, D. C. 410 *N. Broadway.*
A. B., Johns Hopkins University, 1897.

THEODORE LAMSON. Boston, Mass. 118 *Jackson Place.*
Ph. B., Yale University, 1897.

DWIGHT MILTON LEWIS. New Haven, Conn. 1701 *N. Broadway.*
A. B., Yale University, 1897.

MARGARET LONG. Hingham, Mass. 715 *St. Paul St.*
A. B., Smith College, 1895; Student, Massachusetts Institute of Technology, 1896-97.

WARFIELD THEOBALD LONGCOPE. Baltimore. 136 *Richmond St.*
A. B., Johns Hopkins University, 1897.

ANNA GALLOWAY LYLE. San Francisco, Cal. 213 *W. Monument St.*
A. B., Leland Stanford Jr. University, 1895.

WILLIAM HARVEY MADDREN. Brooklyn, N. Y. 801 *N. Broadway.*
S. B., Brooklyn Polytechnic Institute, 1896; Graduate Student, Johns Hopkins University, 1896-97.

ELIZABETH SUTTON MOORE. Brookville, Pa. 118 *Jackson Place.*
S. B., Wilson College (Pa.), 1895; Graduate Student, Cornell University, 1896-97.

HENRY PICKERING PARKER. Howard County. *St. Denis P. O.*
A. B., Johns Hopkins University, 1896.

MAURICE J. RUBEL. Chicago, Ill. 1724 *E. Baltimore St.*
S. B., University of Chicago, 1897.

JOHN CLEVELAND SALTER. Carbondale, Ill. 1705 *Fairmount Av.*
A. B., Yale University, 1897.

MABEL PALMER SIMIS. Vail's Gate, N. Y. *Mt. Holly, near Walbrook.*
S. B., Cornell University, 1897.

JOSIAH MORRIS SLEMONS. Salisbury. 1024 *N. Broadway.*
A. B., Johns Hopkins University, 1897.

HERBERT MELOY SMITH. Salem, Va. 1014 *N. Broadway.*
A. B., Roanoke College, 1893, and A. M., 1897; Student, Johns Hopkins University, 1894-95.

CHARLES NELSON SPRATT. Minneapolis, Minn. 821 *N. Broadway.*
S. B., University of Minnesota, 1897.

GERTRUDE STEIN. Baltimore. 215 *E. Biddle St.*
A. B., Radcliffe College, Harvard University, 1898.

ALBERT LOUIS STEINFELD. Baltimore. 318 *N. Carey St.*
A. B., Johns Hopkins University, 1897.

CARLOTTA MARY SWETT. Bangor, Me. 239 *W. Biddle St.*
A.B., Wellesley College, 1896; Student, Maine State College, Summer of 1896.

HENRY LUDWIG ULRICH. Newark, N. J. 806 *N. Broadway.*
S. B., Rutgers College, 1897.

ALBERT JAMES UNDERHILL. Baltimore. *Walbrook.*
A. B., Johns Hopkins University, 1897.

MARION BARTHOLOW WALKER. Cambridge, Mass. 529 *N. Wolfe St.*
A. B., Radcliffe College, Harvard University, 1896.

LOUIS MARSHALL WARFIELD. Savannah, Ga. 901 *N. Calvert St.*
A. B., Johns Hopkins University, 1897.

GEORGE WILLIAM WARREN. Portland, Me. 1014 *N. Broadway.*
A. B., Johns Hopkins University, 1897.

STEPHEN HURT WATTS. Lynchburg, Va. 804 *N. Broadway.*
A. M., Randolph-Macon College, 1896; Student, University of Virginia, 1896-97.

ERNEST ALDEN WELLS. Hartford, Conn. 527 *N. Wolfe St.*
A. B., Yale University, 1897.

MABEL WELLS. Monticello, Ark. 239 *W. Biddle St.*
A. B., Wellesley College, 1896; Student, University of Zürich, 1897.

CHARLES KNICKERBACKER WINNE, JR. Baltimore. 1624 *Linden Av.*
A. B., Johns Hopkins University, 1897.

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Second Year.

JOHN AUER. Chicago, Ill. 107 *Jackson Place.*
S. B., University of Michigan, 1898.

JOHN BRADFORD BRIGGS, JR. Baltimore. 10 *E. Madison St.*
S. B., New York University, 1898.

BENNET BERNARD BROWNE, JR. Baltimore. 510 *Park Av.*
A. B., Johns Hopkins University, 1898.

ROBERT MARTIN BRUNS. New Orleans, La. 1401 *Park Av.*
A. B., University of Virginia, 1896; Student, Johns Hopkins University, 1897-98.

WILLIAM MORGAN CASE BRYAN. St. Louis, Mo. 801 *N. Broadway.*
A. B., Washington University, 1897; M. S., University of Michigan, 1898.

CAMILLUS BUSH. Woodland, Cal. 106 *W. Saratoga St.*
S. B., University of California, 1898.

JOHN WOOLMAN CHURCHMAN. Burlington, N. J. 802 *N. Broadway.*
A. B., Princeton University, 1898.

THOMAS WOOD CLARKE. Utica, N. Y. 144 *Jackson Place.*
A. B., Harvard University, 1899.

HENRY WIREMAN COOK. Baltimore. *The St. Paul.*
A. B., Johns Hopkins University, 1898.

JACOB JONES COONS. Milledgeville, O. 1016 *N. Broadway.*
S. B., Ohio Wesleyan University, 1898.

GUSTAVUS CHARLES DOHME. Baltimore. 1808 *Guilford Av.*
A. B., Johns Hopkins University, 1898.

DAVID HOUGH DOLLEY. Hillsboro, Va. 1019 *N. Broadway.*
A. B., Randolph-Macon College, 1897, and A. M., 1898.

HARLAN DUDLEY. Monroeville, O. 909 *N. Broadway.*
Ph. B., Oberlin College, 1897; Graduate Student, Johns Hopkins University, February to June, 1898.

RALPH DUFFY. Baltimore. 1610 *Park Av.*
A. B., Johns Hopkins University, 1898.

JOHN DUNLOP. Washington, D. C. 626 *N. Broadway.*
S. B., Princeton University, 1898.

DANA LEE EDDY. Leavenworth, Kan. 1412 *E. Chase St.*
A. B., Yale University, 1898.

WILLIAM GAGE ERVING. Hartford, Conn. 1727 *Fairmount Av.*
A. B., Yale University, 1898.

NEWELL SIMMONS FERRY. New Haven, Conn. 144 *Jackson Place.*
Ph. B., Yale University, 1898.

NELLIS BARNES FOSTER. Utica, N. Y. 805 *N. Broadway.*
S. B., Amherst College, 1898.

WILLIAM WILLOUGHBY FRANCIS. Toronto, Ont. 1 *W. Franklin St.*
A. B., Johns Hopkins University, 1898.

MAURICE ALBERT FRANKENTHAL. St. Louis, Mo. 108 *Jackson Place.*
A. B., Washington University, 1898.

W. HARRY GLENNY. Buffalo, N. Y. 1013 *Cathedral St.*
Ph. B., Yale University, 1894, and Graduate Student, 1897-98.

JUSTIN FRANK GRANT. Stamford, Conn. 144 *Jackson Place.*
Ph. B., Yale University, 1898.

CLARENCE FOSTER HARDY. Waukesha, Wis. 1014 *N. Broadway.*
B. L., University of Wisconsin, 1891.

MORRISON LE ROY HAVILAND. Glens Falls, N. Y. 805 *N. Broadway.*
Ph. B., Union College, 1898.

MABEL STEVENS HAYNES. Boston, Mass. *The St. Paul.*
A. B., Bryn Mawr College, 1898.

LEONARD KEENE HIRSHBERG. Baltimore. 581 *N. Gay St.*
A. B., Johns Hopkins University, 1898.

CARL HERMAN HORST. Butte City, Mont. 700 *N. Broadway.*
A. B., Leland Stanford Jr. University, 1898.

SOLOMON HYMAN. San Francisco, Cal. 126 *Jackson Place.*
S. B., University of California, 1898.

WILLIAM FREDERICK JELKE. Cincinnati, O. 1703 *N. Broadway.*
Ph. B., Yale University, 1898.

THOMAS MONROE JONES. Anderson, Ind. 700 *N. Broadway.*
A. B., Indiana University, 1898.

ALFRED KARSTED. Butte City, Mont. 1019 *N. Broadway.*
A. B., Leland Stanford Jr. University, 1898.

ARTHUR HERBERT KIMBALL. Washington, D. C. 410 *N. Broadway.*
S. B., Amherst College, 1897.

LOUIS CHARLES LEHR. Baltimore. 7 *E. Chase St.*
A. B., Johns Hopkins University, 1898.

EDWARD MCCRADY L'ENGLE. Baltimore. 13 *E. Preston St.*
A. B., St. John's College, 1897; Graduate Student, Johns Hopkins University, 1897-98.

GEORGE VICTOR LITCHFIELD, JR. Abingdon, Va. 1731 *Fairmount Av.*
A. M., Randolph-Macon College, 1897.

EMMA LOOTZ. Boston, Mass. 1709 *Fairmount Av.*
A. B., Smith College, 1897.

SEYMOUR DE WITT LUDLUM. Paterson, N. J. 909 *N. Broadway.*
S. B., Rutgers College, 1897.

GEORGE MALCOLM MACGREGOR. Lancaster, Wis. 121 *Jackson Place.*
S. B., University of Wisconsin, 1898.

SAMUEL ANDREW MARSHALL. Cromwell, Conn. 1727 *Fairmount Av.*
A. B., Yale University, 1898.

JOHN SCOTT MCFARLAND. Buffalo, N. Y. 114 *Jackson Place.*
Ph. B., Yale University, 1898.

EDMUND WEBSTER MEISENHELDER. York, Pa. 505 *N. Wolfe St.*
A. B., Pennsylvania College, 1898; Harvard Summer School, 1898.

JOHN ELMER MEISENHELDER. Hanover, Pa. 505 *N. Wolfe St.*
S. B., Pennsylvania College, 1897; Graduate Student, Johns Hopkins University, 1897-98.

HENRY WILLIAM OCHSNER. Waumandee, Wis. 1714 *Fairmount Av.*
S. B., University of Wisconsin, 1898.

GARNET ISABEL PFLTON. Colorado Springs, Colo. 1033 *Cathedral St.*
A. B., Wellesley College, 1897.

FREDERICK HAVEN PRATT. Worcester, Mass.
A. B., Harvard University, 1896; Harvard Medical School, 1896-98.

EDWARD HIRAM REEDE. Baltimore. 1224 *N. Broadway.*
A. B., Cornell University, 1898.

EDWIN NICHOLAS RIGGINS. East Orange, N. J. 1640 *E. Fayette St.*
A. B., Williams College, 1897.

CAREY PEGRAM ROGERS. Raleigh, N. C. 801 *N. Broadway.*
A. B., Wake Forest College, 1897; Graduate Student, Johns Hopkins University, 1897-98.

GEORGE BARR SCHOLL. Baltimore. 1005 *W. Lanvale St.*
A. B., Johns Hopkins University, 1898.

MELVILLE SILVERBERG. San Francisco, Cal. 126 *Jackson Place.*
A. B., University of California, 1897.

JOHN NATHAN SIMPSON. Point Pleasant, W. Va. 700 *N. Broadway.*
A. B., University of Nashville, 1893.

HARRY MERRIMAN STEELE. Waterbury, Conn. 1613 *John St.*
Ph. B., Yale University, 1894.

ALICE WELD TALLANT. Boston, Mass. 1709 *Fairmount Av.*
A. B., Smith College, 1897; Student, Massachusetts Institute of Technology, 1897-98.

CONDIT BREWER VAN ARSDALL. Harrodsburg, Ky. 1225 *Park Terrace.*
A. B., Kentucky Wesleyan College, 1894, and A. M., 1898; A. B., University of Michigan, 1898.

JOHN VAN DENBURGH. San Francisco, Cal. 813 *N. Broadway.*
A. B., Leland Stanford Jr. University, 1894, A. M., 1896, and Ph. D., 1897.

OTIS BUCKMINSTER WIGHT. Stanford University, Cal. 813 *N. Broadway.*
A. B., Leland Stanford Jr. University, 1898.

CLARA LOUISE WILLIAMS. San Francisco, Cal. 129 *Jackson Place.*
S. B., University of California, 1897, and M. S., 1898.

DUDLEY WILLIAMS. Baltimore. 1128 *Cathedral St.*
A. B., Johns Hopkins University, 1897, and Graduate Student, 1897-98.

CHARLES BENJAMIN WRIGHT. Grand Forks, N. Dak. 1224 *N. Broadway.*
A. B., University of North Dakota, 1898.

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First Year.

MARY LOUISE BARKER. Pottsville, Pa. 239 *W. Biddle St.*
A. B., Wellesley College, 1899; Graduate Student, Harvard Summer School, 1899.

VICTOR HUGO BASSETT. Aledo, Ill. 1910 *E. Madison St.*
A. B., Knox College, 1896; Graduate Student, Universities of Wisconsin and Michigan, 1897-98.

RUTH BENNETT. Chicago, Ill. 1248 *N. Broadway.*
A. B., University of Illinois, 1899; Graduate Student, University of Illinois, Summer of 1899.

LEWIS CLYDE BIXLER. Easton, Pa. 1024 *N. Broadway.*
A. B., Lafayette College, 1899.

ELIZABETH HEDGES BLAUVELT. Franklin Park, N. J. 925 *McCulloh St.*
A. B., Bryn Mawr College, 1896.

CLINTON ETHELBERT BRUSH, JR. Baltimore. 10 *E. Madison St.*
S. B., New York University, 1899.

JOSEPH ALBERT CHATARD. Baltimore. 516 *Park Av.*
A. B., Loyola College, 1898; Graduate Student, Johns Hopkins University, 1898-99.

GEORGE EDWARD CHINN, JR. Fayette, Mo. 1027 *N. Broadway.*
S. B., Central College (Mo.), 1899.

ALFRED HULL CLARK. Buffalo, N. Y. 122 *Jackson Place.*
A. B., Cornell University, 1899.

WILLIAM BURGESS CORNELL. Chicago, Ill. 205 *W. Madison St.*
A. B., University of Chicago, 1899.

EMMA GRACE DEWEY. Jacksonville, Ill. 144 *Jackson Place.*
S. B., Wellesley College, 1885, and A. M., 1894; Graduate Student, University of Chicago, 1898-99.

RALPH TORREY EDWARDS. Galesburg, Ill. 1821 *Jefferson St.*
A. B., Knox College, 1897, and A. M., 1899.

ROADES FAYERWEATHER. Chicago, Ill. 527 *N. Wolfe St.*
A. B., Harvard University, 1899.

JOHN SOMERVILLE FISCHER. Baltimore. 9 *E. Biddle St.*
A. B., Johns Hopkins University, 1898, and Graduate Student, 1898-99.

FREDERICK JULIUS GAENSLEN. Milwaukee, Wis. 104 *Jackson Place.*
S. B., University of Wisconsin, 1899.

LEWIS MCFARLAND GAINES. Decatur, Ga. 1727 *Fairmount Av.*
A. B. and B. S., Hampden-Sidney College, 1898; Graduate Student, University of Virginia, 1898-99.

JOHN TIMOTHY GERAGHTY. St. Paul, Minn. 1042 *N. Eden St.*
A. B., St. Thomas College, 1895; Ph. B., St. Paul Seminary, 1897; Graduate Student, Johns Hopkins University, 1897–98.

FRANCIS C. GOLDSBOROUGH. Baltimore. 924 *St. Paul St.*
S. B., Princeton University, 1899.

LOUIS WARDLAW HASKELL, JR. Savannah, Ga. 706 *N. Broadway.*
A. B., Johns Hopkins University, 1899.

ARTHUR DOUGLASS HIRSCHFELDER. San Francisco, Cal. 107 *Jackson Pl.*
S. B., University of California, 1897; Student in Paris and Heidelberg, 1898–99.

ROSS HOPKINS. Holton, Kan. 908 *N. Broadway.*
A. B. and S. B., Campbell University, 1897; A. B., Kansas State University, 1899; Graduate Student, University of Chicago, 1899.

PAUL STUART HUNTER. Pittsburgh, Pa. 514 *N. Broadway.*
A. B., West Virginia University, 1899.

HENRY TALBOT HUTCHINS. Worcester, Mass. 700 *N. Broadway.*
A. B., Amherst College, 1899.

CLEMENT LEVI JONES. Jamestown, O. 1016 *N. Broadway.*
S. B., Washington and Jefferson College, 1899.

ALBERT KEIDEL. Baltimore. 1303 *N. Calvert St.*
A. B., Johns Hopkins University, 1900.

HOMER PENFIELD DONALDSON KINGSBURY. New York City.
A. B., Harvard University, 1899. 103 *Jackson Place.*

MAURICE LAZENBY. Baltimore. 800 *W. North Av.*
A. B., Johns Hopkins University, 1900.

ARTHUR SOLOMON LOEVENHART. Lexington, Ky. 521 *N. Wolfe St.*
S. B., Kentucky State College, 1898, and M. S., 1899.

HENRY D. LONG. Greensburg, Pa. 908 *N. Broadway.*
A. B., Washington and Jefferson College, 1894, and A. M., 1897; Graduate Student, Cornell University Summer School.

EDWARD JANNEY SIDWELL LUPTON. Martinsburg, W. Va.
S. B., Columbian University, 1899. 1022 *N. Broadway.*

LEO AUGUSTINE LYNCH, Olyphant, Pa. 720 *N. Broadway.*
A. B., Yale University, 1899.

WILLIAM SANDERS MANNING. Washington, D. C. 1022 *N. Broadway.*
S. B., Columbian University, 1899.

WATSON MARSHALL. Pittsburgh, Pa. 700 *N. Broadway.*
A. B., Princeton University, 1899.

ROY WHITE MCCLINTOCK. Wilkensburg, Pa. 514 *N. Broadway.*
A. B., Washington and Jefferson College, 1897.

ROBERT TALBOTT MILLER, JR. Covington, Ky. 700 *N. Broadway.*
A. B., Amherst College, 1899.

MARY ELIZABETH MORSE. Baltimore. 726 *Reservoir St.*
A. B., Woman's College of Baltimore, 1899.

WILLIS BEAN MOULTON. Portland, Me. 122 *Jackson Place.*
A. B., Bowdoin College, 1899.

HARRY BENJAMIN NEAGLE. Lubec, Me. 122 *Jackson Place.*
A. B., Bowdoin College, 1899.

SELDEN IRWIN RAINFORTH. Cincinnati, O. 209 *E. Preston St.*
S. B., University of Cincinnati, 1899.

BENJAMIN FRANKLIN RILEY, JR. S. B., University of Georgia, 1898.	Athens, Ga.	1027 *N. Broadway.*
GEORGE CANBY ROBINSON. A. B., Johns Hopkins University, 1899.	Baltimore.	1001 *St. Paul St.*
FERDINAND SCHMITTER. A. B., Union College, 1899.	Albany, N. Y.	1731 *Fairmount Av.*
OSCAR THEODORE SCHULTZ. A. B., Indiana University, 1897.	Mt. Vernon, Ind.	1027 *N. Broadway.*
WINFORD HENRY SMITH. A. B., Bowdoin College, 1899.	Westbrook, Me.	1020 *N. Broadway.*
ALEXANDER RAYMOND STEVENS. A. B., Johns Hopkins University, 1896.	Baltimore.	30 *E. Twentieth St.*
LOUISE TAYLER. A. B., Wellesley College, 1896.	Washington, D. C.	239 *W. Biddle St.*
WILLIAM LAWTON THOMPSON. A. B., Bowdoin College, 1899.	Portland, Me.	1020 *N. Broadway.*
CATHERINE HUTCHINSON TRAVIS. A. B., McGill University, 1895; Graduate Student, Harvard Summer School, 1899.	Hampton, Canada.	716 *N. Carey St.*
FRANK HOSFORD WATSON. S. B., University of Wisconsin, 1899.	Milwaukee, Wis.	1020 *N. Broadway.*
CHARLES WHITTIER YOUNG. S. B., University of Illinois, 1897.	Chicago, Ill.	1731 *Fairmount Av.*

Physicians attending Special Courses, 1899–1900.

Jesse I. Armstrong. Blount Springs, Ala. 406 *N. Broadway.*
M. D., Chattanooga Medical College (Tenn.) 1893. *Normal Histology.*

James Joseph Carroll. Baltimore. 114 *W. Franklin St.*
M. D., University of Maryland, 1893. *Special Research.*

Michael L. Casey. Rochester, N. Y.
M. D., University of Pennsylvania, 1898. *Normal Histology.*

Joseph E. Clark. New York, N. Y.
M. D., Harvard University, 1882. *Normal Histology.*

Modie E. Cunningham. Pratt City, Ala. 510 *N. Broadway.*
M. D., Birmingham Medical College, 1900. *Normal Histology.*

Rozel M. Curtiss. Marengo, Ill. 427 *N. Broadway.*
M. D., College of Physicians and Surgeons (Chicago), 1884. *Bacteriology.*

Thomas Fearn. Baltimore. 13 *W. Preston St.*
M. D., University of Maryland, 1890. *Special Research.*

Margaret Hamilton. Fort Wayne, Ind. *The St. Paul.*
A. B., Bryn Mawr College, 1897. *Special Research.*

James W. Hartigan. Morgantown, W. Va.
M. D., Bellevue Hospital Medical College, 1886. *Surgery.*

E. Russell Hanlon. San Francisco, Cal. 1731 *Fairmount Av.*
M. D., Cooper Medical College, 1899. *Normal Histology.*

James J. Harward. Fulford. 1042 *N. Eden St.*
M. D., University of Maryland, 1899. *Medicine and Surgery.*

Abram T. Kerr. Buffalo, N. Y. 702 *Newington Av.*
M. D., University of Buffalo, 1897. *Anatomy.*

Minora E. Kibbe. San Francisco, Cal. 510 *N. Broadway.*
M. D., Cooper Medical College, 1898. *Medicine, Gynecology, and Clinical Microscopy.*

Caroline Wormley Latimer. Howard County. 517 *Cathedral St.*
M. D., Woman's Medical College (Balt.), 1890; A. B. and A. M., Bryn Mawr College, 1896. *Special Research.*

Thomas D. Meikle. Mt. Forest, Ont.
M. D., Trinity University (Ont.), 1883. *Gynecology.*

John I. Middleton, Jr. Baltimore. 907 *Cathedral St.*
A. B., Princeton University, 1887; M. D., College of Physicians and Surgeons (N.Y.), 1895. *Bacteriology.*

George K. McDowell. Staples, Minn.
M. D., Trinity University (Ont.), 1892. *Medicine and Surgery.*

Alexius W. McGlannan, Jr. Baltimore. 313 *N. Greene St.*
M. D., College of Physicians and Surgeons (Balt.), 1895. *Physiological Chemistry.*

Walter McNab Miller. Reno, Nev. *Hotel Broadway.*
M. D., Cooper Medical College, 1895. *Bacteriology, Pathology, and General Medicine.*

Charles P. Monro. De Ruyter, N. Y. 411 *St. Paul St.*
M. D., College of Physicians and Surgeons (Balt.), 1892. *Medicine.*

John J. Morgan. Duran, Wis. 510 *N. Broadway.*
M. D., University of Buffalo, 1873. *Normal Histology.*

DAVID H. NEWTON. Detroit, Mich. 709 *N. Broadway.*
M. D., Detroit College of Medicine, 1896. *Gynecology.*

FRANK JESSE OTIS. Battle Creek, Mich. 126 *Jackson Place.*
M. D., American Medical Missionary College, 1899. *Bacteriology.*

CHARLES H. POTTER. Baltimore. 1526 *Bolton St.*
M. D., Baltimore Medical College, 1897. *Special Research.*

GEORGE B. SOMERS. San Francisco, Cal. 718 *N. Broadway.*
A. B., Harvard University, 1886; M. D., Cooper Medical College, 1888. *Gynecology.*

WILLIAM L. THOMPSON. Chicago, Ill. 1309 *N. Broadway.*
M. D., New York University, 1889. *Tropical Diseases.*

OLANDER E. WALD. Chicago, Ill.
M. D., College of Physicians and Surgeons (Chicago), 1898. *Normal Histology and Medicine.*

GORDON WILSON. Baltimore. 13 *E. Franklin St.*
M. D., University of Virginia, 1899. *Bacteriology and Pathology.*

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PHYSICIANS ATTENDING SPECIAL COURSES, MAY–JUNE, 1899.

[Not enrolled in the Register for 1898–99].

FRANK G. ATWOOD. New Haven, Conn.
M. B., University of Toronto, 1896. *Medicine.*

HARVEY G. BECK. York, Pa.
M. D., College of Physicians and Surgeons (Balt.), 1896. *Medicine.*

A. KERR BOND. Baltimore.
A. B., Johns Hopkins University, 1880; M. D., University of Maryland, 1883. *Clinical Microscopy.*

HOWARD S. CHRISTIAN. Millville, Pa.
M. D., College of Physicians and Surgeons (Balt.), 1887. *Medicine and Gynecology.*

JAMES D. CURTIS. St. Thomas, Ont.
M. B., University of Toronto, 1894. *Clinical Microscopy.*

ROZEL M. CURTISS. Marengo, Ill.
M. D., College of Physicians and Surgeons (Chicago), 1884. *Medicine.*

CHRISTIAN DEETJEN. Baltimore.
M. D., Julio Maximiliano College (Würzburg), 1890. *Medicine.*

WALTER B. EMERY. Atlanta, Ga.
M. D., Atlanta College of Physicians and Surgeons, 1899. *Normal Histology, Clinical Microscopy, and Medicine.*

HENRY J. EVANS. Baltimore.
M. D., Hahnemann Medical College (Phila.), 1881. *Medicine.*

EDGAR A. FISHER. Worcester, Mass.
M. D., Boston University, 1897. *Gynecology.*

THOMPSON D. GILBERT. Washington, D. C.
M. D., University of Maryland, 1899. *Bacteriology and Clinical Microscopy.*

LEROY K. HAGENOW. South Manchester, Conn.
M. D., Baltimore Medical College, 1898. *Surgery.*

HOWELL T. HEFLIN. Bessemer, Ala.
M. D., University of Maryland, 1898. *Medicine and Surgery.*

WYATT HEFLIN. Birmingham, Ala.
M. D., Jefferson Medical College, 1884. *Gynecology and Clinical Microscopy.*

GEORGE R. HOLTZAPPLE. York, Pa.
M. D., Bellevue Hospital Medical College, 1884. *Medicine, Pathology, Bacteriology, and Clinical Microscopy.*

HARVEY P. JACK. Canisteo, N. Y.
M. D., College of Physicians and Surgeons (Balt.), 1891. *Gynecology.*

SHEPPARD S. KELLAM. Baltimore.
M. D., University of Virginia, 1898. *Pathology and Bacteriology.*

HOWARD M. KEMP. Bloomington.
M. D., University of Maryland, 1881. *Normal Histology and Clinical Microscopy.*

GOLDSBY KING. Selma, Ala.
M. D., Medical College of South Carolina, 1880. *Medicine and Gynecology.*

THOMAS W. KOON. Eglon, W. Va.
M. D., College of Physicians and Surgeons (Balt.), 1893. *Medicine, Surgery, and Gynecology.*

ALFRED H. LILLISTON. Accomac, Va.
M. D., University of Virginia, 1898. *Medicine, Surgery, and Clinical Microscopy.*

EDWARD L. MARTINDALE. Clinton, Iowa.
M. D., University of Michigan, 1894. *Medicine.*

JAMES B. MCELROY. Stovall, Miss.
M. D., College of Physicians and Surgeons (Balt.), 1893. *Pathology, Bacteriology, and Clinical Microscopy.*

FRISBY T. MCKAIG. Baltimore.
M. D., Alabama Medical College, 1890. *Normal Histology, Pathology, Bacteriology, and Clinical Microscopy.*

ELIZABETH MCLAUGHRY. New Castle, Pa.
M. D., Woman's Medical College (Phila.), 1894. *Medicine, Gynecology, and Clinical Microscopy.*

IRVING MILLER. Baltimore.
M. D., University of Maryland, 1887. *Gynecology.*

GEORGE W. MITCHELL. Baltimore.
M. D., University of Maryland, 1896. *Medicine.*

EUGENE E. MURPHY. Augusta, Ga.
M. D., University of Georgia, 1898. *Medicine, Pathology, and Clinical Microscopy.*

DAVID H. NUSBAUM. Bloomington, Ill.
M. D., Jefferson Medical College, 1888. *Gynecology and Clinical Microscopy.*

THEODORE E. OERTEL. Augusta, Ga.
M. D., Columbian University, 1891. *Bacteriology.*

MARTHA E. OSMOND. Langhorne, Pa.
M. D., Woman's Medical College (Phila.), 1898. *Medicine and Pediatrics.*

ROBERT S. PAGE. Baltimore.
M. D., University of Maryland, 1898. *Clinical Microscopy.*

THOMAS D. PARKE. Birmingham, Ala.
M. D., New York University, 1879. *Medicine, Pediatrics, and Pathology,*

ELEANOR PARRY. New York City.
M. D., Woman's Medical College of the New York Infirmary, 1894. *Medicine and Clinical Microscopy.*

HERBERT M. POMEROY. Los Angeles, Cal.
M. D., Cooper Medical College, 1892. *Medicine, Gynecology, Pathology, and Clinical Microscopy.*

JAMES E. SADLIER. Poughkeepsie, N. Y.
M. D., Union University (Albany), 1887. *Medicine, Surgery, Gynecology, and Special Departments.*

DAVID SHOEMAKER. Truckee, Cal.
M. D., Cooper Medical College, 1891. *Medicine, Surgery, Gynecology, and Clinical Microscopy.*

J. PHANDORA SIMPSON. Christiansburg, Va.
M. D., Woman's Medical College (Phila.), 1898. *Medicine.*

JOHN W. STAPLES. Franklin, N. H.
M. D., University of Vermont, 1888. *Medicine, Gynecology, and Clinical Microscopy.*

JOHN A. TOMPKINS, JR. Baltimore.
M. D., University of Maryland, 1898. *Pathology and Bacteriology.*

BERTIS R. WAKEMAN. Hornellsville, N. Y.
M. D., Long Island Medical College, 1893. *Gynecology.*

JOHN C. WELCH. Bellevue, Pa.
M. D., Medico-Chirurgical College (Phila.), 1893. *Medicine and Pathology.*

HENRY M. WENNER. Nanticoke, Pa.
M. D., University of Pennsylvania, 1891. *Pathology.*

CUNNINGHAM WILSON. Birmingham, Ala.
M. D., University of Pennsylvania, 1884. *Medicine.*

JAMES J. WINGARD. Lexington, S. C.
M. D., University of Virginia, 1895. *Medicine and Clinical Microscopy.*

JOHN ZAHORSKY. St. Louis, Mo.
M. D., Missouri Medical College, 1895. *Medicine and Clinical Microscopy.*

UNDERGRADUATE STUDENTS.

MATRICULATES.

RONALD TAYLOR ABERCROMBIE. Private Instruction. *Group III.*	Baltimore.	827 *N. Eutaw St.*
ROGER BROOKE TANEY ANDERSON. Private Instruction. *Group I.*	Baltimore.	816 *N. Eutaw St.*
HOWARD BAETJER. Baltimore City College. *Group II.*	Baltimore.	2324 *Callow Av.*
HOLLIS ROSWELL BAKER. Western Maryland College. *Group VI.*	Aberdeen.	*Aberdeen.*
LEON KAHN BALDAUF. Dr. Deichmann's School. *Group III.*	Henderson, Ky.	*The Altamont.*
BERNARD BANKARD BANDEL. Dr. Deichmann's School. *Group VI.*	Baltimore.	1613 *Linden Av.*
CHRISTIAN JOHN BEEUWKES. Baltimore City College. *Group VI.*	Baltimore.	2005 *Druid Hill Av.*
BERTRAM MOSES BERNHEIM. Mr. Flexner's School. *Group VI.*	Louisville, Ky.	*The Altamont.*
ANDREW REID BIRD. Bellevue High School, Va. *Group VI.*	Baltimore.	8 *E. Biddle St.*
JOHN MANNING BOOKER. Mr. Marston's School. *Group I.*	Baltimore.	853 *Park Av.*
BYRON NOBLE BOUCHELLE. St. John's College. *Group VI.*	Chesapeake City.	1705 *N. Charles St.*
NORMAN BOYER. Baltimore City College, 1898. *Group VI.*	Baltimore.	1526 *McCulloh St.*
AUSTIN ADAMS BREED. Franklin School. *Group III.*	Cincinnati, O.	8 *W. Preston St.*
JOHN STRAITH BRISCOE. Baltimore City College, 1898. *Group I.*	Baltimore.	12 *W. North Av.*
CHARLES EDWARD BROOKS. Mr. Marston's School. *Group II.*	Baltimore County.	*Lake Roland.*
ERNEST BONSALL BROWN. Dr. Deichmann's School. *Group VI.*	Church Hill.	906 *McCulloh St.*
EDWARD SKIPWITH BRUCE. Mr. Marston's School. *Group VI.*	Baltimore.	1112 *N. Calvert St.*
ALFRED WILLIAM BRUTON. Mr. Lamb's School. *Group II.*	Baltimore.	804 *W. North Av.*
JAMES LUTHER ALBERT BURRELL. Mr. Marston's School. *Group I.*	Baltimore.	2024 *Maryland Av.*
WILLIAM JACKINS BUTTNER. Baltimore City College, 1898. *Group III.*	Mt. Washington.	*Mt. Washington.*
HARRY STEPHENSON BYRNE. Baltimore City College, 1898. *Group VI.*	Baltimore.	422 *Mosher St.*

JOHN GORSUCH CAMPBELL. Baltimore County. *Owings Mills.*
Baltimore City College, 1897. *Group III.*

LYTTLETON MORGAN CHAMBERS. Baltimore. 317 *Falls Road, Hampden.*
Baltimore City College. *Group I.*

CHRISTOPHER THOMPSON CLARK. Washington, D. C. 1314 *McCulloh St.*
Dr. Deichmann's School. *Group VI.*

COSEY WALKER CONSTANTINE. Birmingham, Ala. 110 *W. Twenty-third St.*
Webb School (Tenn.). *Group III.*

ROBERT TREAT CRANE. Baltimore County. *Pikesville.*
Mr. Marston's School. *Group VII.*

FREDERICK RICHARD DAPPRICH. Milwaukee, Wis. *Catonsville.*
Milwaukee High School. *Group III.*

MCQUILKIN DE GRANGE. Frederick. 212 *W. Franklin St.*
Frederick College. *Group VI.*

ALBERT GOUCHER DEW. Baltimore. 1623 *Edmondson Av.*
Dr. Deichmann's School. *Group I.*

ROSS MILES DIGGS. Baltimore. 1210 *Linden Av.*
Mr. Marston's School. *Group VI.*

JOHN HOWARD EAGER, JR. Baltimore. 1405 *McCulloh St.*
Mr. Lamb's School. *Group I.*

AARON EMBER. Baltimore. 201 *S. High St.*
Private Instruction. *Group VII.*

JOSEPH TOWNSEND ENGLAND. Baltimore. 607 *Lennox St.*
Dr. Deichmann's School. *Group V.*

JOHN EDWARD EWELL. Baltimore. 1126 *Mosher St.*
Mr. Lamb's School. *Group I.*

LEYBURN GREAR FISHACH. Baltimore. 432 *E. North Av.*
Baltimore City College, 1898. *Group I.*

FREDERICK BONNER FLINN. Worcester, Mass. 1313 *Madison Av.*
Worcester Polytechnic Institute. *Group III.*

FREDERICK FOSTER. Baltimore. 2301 *N. Charles St.*
Mr. Marston's School. *Group II.*

OTTO CHARLES GLASER. Baltimore. 2135 *Bolton St.*
Baltimore City College. *Group III.*

JOSEPH DAVID GREENE. Lake Benton, Minn. 1615 *John St.*
University of Minnesota. *Group V.*

JOHN WHEELER GRIFFIN. Baltimore. 1027 *N. Calvert St.*
Mr. Marston's School. *Group I.*

WILLIAM HALL HARRIS, JR. Baltimore. 511 *Park Av.*
Dr. Deichmann's School. *Group VI.*

HENRY HONEYMAN HAZEN. Washington, D. C. 1005 *McCulloh St.*
Washington High School. *Group III.*

HARRY BRIGGS HEALD. Moravia, N. Y. 822 *N. Eutaw St.*
St. Stephen's College. *Group I.*

STUART HEYMAN. Baltimore. 2015 *Madison Av.*
Mr. Marston's School. *Group VI.*

LOUIS FOLTAT HILDEBRANDT. Baltimore. 1325 *N. Stricker St.*
Baltimore City College, 1899. *Group VII.*

EBEN CHARLES HILL. Mr. Marston's School. *Group VI.*	Baltimore.	2120 *N. Charles St.*
HARRY DICKINSON HILL. Mr. Lamb's School. *Group II.*	Baltimore.	807 *N. Arlington Av.*
JOHN PHILIP HILL. Mr. Marston's School. *Group VI.*	Baltimore.	2120 *N. Charles St.*
LEE MILTON HOLLANDER. Real-Gymnasium, Frankfort, Germany. *Group VII.*	Baltimore.	1013 *Madison Av.*
EDWARD PECHIN HYDE. Baltimore City College, 1897. *Group II.*	Baltimore.	1100 *E. North Av.*
ROBERT CLARK KERR. Baltimore City College. *Group II.*	Baltimore.	2023 *N. Charles St.*
WILLIAM KIRK. Baltimore City College, 1899. *Group VI.*	Baltimore.	1422 *Argyle Av.*
WALTER ISAAC KOHN. Mr. Flexner's School. *Group VI.*	Louisville, Ky.	*The Altamont.*
EUGENE JOSEPH LEOPOLD. Baltimore City College. *Group III.*	Baltimore.	1227 *Madison Av.*
DONALD MACY LIDDELL. Denver High School. *Group II.*	Denver, Colo.	1314 *McCulloh St.*
NORVIN RUDOLF LINDHEIM. Mr. Marston's School. *Group VI.*	Greensboro, N. C.	1704 *Madison Av.*
JOHN GRESHAM MACHEN. Mr. Marston's School. *Group I.*	Baltimore.	217 *W. Monument St.*
DAVID ISRAEL MACHT. Baltimore City College, 1899. *Group III.*	Baltimore.	812 *W. Lombard St.*
LEONARD LEOPOLD MACKALL. Lawrenceville School. *Group II.*	Baltimore.	1002 *Cathedral St.*
HENRY MANKEN, JR. Baltimore City College, 1897. *Group I.*	Baltimore.	3 *S. Collington Av.*
OGLE MARBURY. Dr. Deichmann's School. *Group VI.*	Laurel.	*Laurel.*
CHARLES MARKELL, JR. Washington County High School. *Group VI.*	Hagerstown.	1630 *Bolton St.*
T. HARTLEY MARSHALL. Mr. Marston's School. *Group VI.*	Pikesville.	887 *Park Av.*
BARTGIS MCGLONE. Private Instruction. *Group III.*	Baltimore.	613 *N. Calhoun St.*
JARED SPARKS MOORE. Mr. Marston's School. *Group VI.*	Baltimore.	*The St. Paul.*
ROBERT EMORY MOORE. Baltimore City College, 1899. *Group III.*	Baltimore.	1347 *York Road.*
ROBERT BROOKS MORSE. Baltimore City College. *Group II.*	Baltimore.	726 *Reservoir St.*
FRANK DUANE MOWER. Newberry College. *Group III.*	Newberry, S. C.	1032 *N. Eutaw St.*

McHARDY MOWER. Newberry, S. C. 1032 *N. Eutaw St.*
Private Instruction. *Group VII.*

CHARLES AUGUSTUS MYERS. Baltimore. 641 *W. Mulberry St.*
Baltimore City College, 1899. *Group VII.*

EDWARD RICHARDS NOBLE. Johnstown, Pa. 1204 *McCulloh St.*
St. Stephen's College. *Group I.*

EUGENE LEVERING NORTON. Baltimore. 2438 *Maryland Av.*
Mr. Marston's School. *Group VI.*

MARBURY BLADEN OGLE. Baltimore. 1801 *W. Lexington St.*
Baltimore City College, 1899. *Group I.*

AUBREY PEARRE, JR. Baltimore. 1601 *Bolton St.*
Boys' Latin School. *Group VI.*

ISAAC ROSENBAUM PELS. Baltimore. 1509 *Madison Av.*
Mr. Marston's School. *Group III.*

JAMES GIRVIN PETERS. Baltimore. 1117 *McCulloh St.*
Mr. Marston's School. *Group VI.*

HUGH WHITE SHEFFEY POWERS. Towson. *Towson.*
Warfield College School. *Group I.*

TOBIAS NOËL DeLOUGHMOE PURCELL. Sykesville. 903 *N. Calvert St.*
Private Instruction. *Group I.*

BENJAMIN SWAYNE PUTTS. Baltimore. 1115 *W. Lanvale St.*
Dr. Deichmann's School. *Group III.*

CHARLES FREDERICK RANFT. Baltimore. 717 *W. Baltimore St.*
Baltimore City College, 1899. *Group VI.*

GEORGE EDWARD REHBERGER. Baltimore. 1709 *Aliceanna St.*
Baltimore City College, 1898. *Group III.*

WALTER FORD REYNOLDS. Baltimore. 439 *Roland Av.*
Baltimore City College, 1899. *Group II.*

JOHN ADELBERT RIGGINS. Penngrove, N. J. 1319 *Linden Av.*
Temple College (Phila.). *Group III.*

ROBERT BRUCE ROULSTON. Baltimore. 628 *N. Arlington Av.*
Baltimore City College, 1897. *Group I.*

FRANK PEYTON ROUS. Baltimore. 252 *W. Hoffman St.*
Private Instruction. *Group III.*

JAMES EDWARD ROUTH. Petersburg, Va. 903 *N. Calvert St.*
Private Instruction. *Group II.*

JACOB ABNER SAYLER, JR. Baltimore. 1516 *Eutaw Place.*
Mr. Marston's School. *Group VI.*

ALEX. VAN RENSSELAER SCHERMERHORN. Baltimore. 632 *W. North Av.*
Private Instruction. *Group VI.*

WILLIAM CHRISTIAN SCHMEISSER. Baltimore. 2401 *Eutaw Place.*
Baltimore City College, 1899. *Group VI.*

OLEN FORREST SHREVE. Easton. 249 *W. Hoffman St.*
Private Instruction. *Group III.*

GIBSON EMERSON SISCO. Baltimore. 2219 *N. Charles St.*
Mr. Marston's School. *Group II.*

JOHN AYDELOTTE SLEMONS. Salisbury. 1024 *N. Broadway.*
Mr. Marston's School. *Group III.*

MILTENBERGER NEALE SMULL. Baltimore. 102 *E. Twentieth St.*
Dr. Deichmann's School. *Group VII.*

GUY EVERETT SNAVELY. Baltimore County. *Fork P. O.*
Private Instruction. *Group I.*

LINDSAY COLEMAN SPENCER. Baltimore. 1118 *N. Calvert St.*
Mr. Marston's School. *Group I.*

JAMES CARLYLE STEPHENS. Norfolk, Va. 932 *Madison Av.*
Norfolk Academy. *Group II.*

HARVEY BRINTON STONE. Baltimore. 1103 *Forrest Place.*
Private Instruction. *Group III.*

HENRY PHILIP STRAUS. Baltimore. 1217 *N. Calvert St.*
Baltimore City College, 1898. *Group II.*

SOLOMON STROUSE. Baltimore. 1704 *Eutaw Place.*
Mr. Marston's School. *Group III.*

OTTO ALBERT STRUTH. Baltimore. 133 *W. Camden St.*
Baltimore City College, 1898. *Group III.*

WALTER B. SWINDELL, JR. Baltimore. 1022 *W. Lafayette Av.*
Mr. Marston's School. *Group III.*

GEORGE LANE TANEYHILL, JR. Baltimore. 1103 *Madison Av.*
Mr. Marston's School. *Group III.*

BAYARD TURNBULL. Baltimore. 1530 *Park Av.*
Mr. Marston's School. *Group VII.*

JAMES EDWARD TYLER, JR. Baltimore. 1303 *Linden Av.*
Mr. Marston's School. *Group VI.*

JAMES DE LANCEY VER PLANCK. Fishkill, N. Y. 209 *W. Madison St.*
Private Instruction. *Group II.*

CHARLES AUGUSTUS VOGELER. Baltimore. 718 *N. Charles St.*
Mr. C. Maupin, Instructor. *Group VI.*

HORACE SLINGLUFF WHITMAN. Baltimore. *Walbrook.*
Baltimore City College. *Group VI.*

MILLER WINGERT. Hagerstown. 906 *McCulloh St.*
Washington County High School. *Group VI.*

NATHAN WINSLOW. Baltimore. 1900 *Mt. Royal Terrace.*
Mr. Marston's School. *Group III.*

MARCUS WILTON WOLF, JR. Baltimore. 210 *Mosher St.*
Baltimore City College. *Group II.*

SAMUEL WOLMAN. Baltimore. 1211 *McElderry St.*
Baltimore City College, 1899. *Group III.*

ARTHUR WRIGHT. Baltimore County. *Delight P. O.*
Mr. C. Maupin, Instructor. *Group III.*

Candidates for Matriculation.

JOHN MARTIN BANDEL. Baltimore. 1613 *Linden Av.*
Mr. C. Maupin, Instructor. *Group VI.*

ECCLESTON BARNETT. Louisville, Ky. *The Altamont.*
Mr. Flexner's School. *Group VI.*

EDWARD BAILEY BEASLEY. Mr. Marston's School. *Group III.*	Baltimore.	1733 *Park Av.*
HENRY BEEUWKES. Private Instruction. *Group III.*	Baltimore.	2005 *Druid Hill Av.*
ELBRIDGE PALMER BERNHEIM. Mr. Flexner's School. *Group III.*	Louisville, Ky.	*The Altamont.*
JAMES HENRY BRADY, JR. Private Instruction. *Group VI.*	Baltimore.	804 *St. Paul St.*
MORTIMER BYE. Baltimore City College. *Group III.*	Baltimore.	733 *N. Fulton Av.*
PHINEAS JENKS SMITH CAMERON. Baltimore City College. *Preliminary Year.*	Baltimore.	734 *Reservoir St.*
THOMAS GROTJAN COOK. Private Instruction. *Group VI.*	Baltimore.	*The St. Paul.*
FRANK HOWARD CRONIN. Dr. Deichmann's School. *Group II.*	Harford County.	1112 *N. Eutaw St.*
ROBERT SERGEANT DUCK. Dr. Deichmann's School. *Group VI.*	Baltimore.	*W. North Av. and Second St.*
CHARLES ELIAS FORD, JR. Mr. Lamb's School. *Group II.*	Baltimore County.	*Pikesville.*
HORACE CLENDENIN GILLESPIE. West Nottingham Academy. *Group II.*	Woodlawn.	933 *McCulloh St.*
EDWIN JEROME GRIFFIN, JR. Dr. Deichmann's School. *Group VI.*	Baltimore.	2212 *E. Pratt St.*
WILLIE ALLEN GRIFFITH. Dr. Deichmann's School. *Group VI.*	Upper Marlboro.	1204 *McCulloh St.*
FREDERICK LEE GUGGENHEIMER. Private Instruction. *Group VI.*	Baltimore.	1737 *Park Av.*
JOHN PHELPS HAND. Mr. Marston's School. *Group I.*	Baltimore.	1719 *Edmondson Av.*
ERNEST CUMMINS HATCH. Baltimore Polytechnic Institute. *Group III.*	Lutherville.	*Lutherville.*
JOHN COFFEY HILDT. Private Instruction. *Preliminary Year.*	Baltimore.	1720 *Bolton St.*
WILLIAM BRYANT HILL. Private Instruction. *Group VI.*	Harford County.	1302 *McCulloh St.*
RICHARD CURZON HOFFMAN, JR. Mr. Wolfe's School. *Preliminary Year.*	Baltimore.	1203 *St. Paul St.*
WILLIAM EDWIN HOFFMAN, JR. Dr. Deichmann's School. *Group III.*	Baltimore.	215 *N. Carey St.*
WILLIAM MCCULLY JAMES. Mr. Marston's School. *Group III.*	Reisterstown.	807 *N. Calvert St.*
JOHN FREDERICK KELLER. Private Instruction. *Preliminary Year.*	Baltimore.	2024 *Orleans St.*
WILLIAM CORKRAN KENNEY. Dr. Deichmann's School. *Group II.*	Baltimore.	200 *W. Lafayette Av.*
WILLIAM HOWARD KOPPELMAN. Baltimore City College. *Group II.*	Baltimore.	605 *N. Carrollton Av.*

SYLVAN JOSEPH LISBERGER. Danville, Va. 1504 *Madison Av.*
Private Instruction. *Group II.*

CHARLES HENRY GRATTAN LOWNDES. Howard County. *St. Denis.*
Private Instruction. *Preliminary Year.*

EDWARD LOWNDES. Howard County. *St. Denis.*
Boys' Latin School. *Group VII.*

STEVENS THOMSON MASON. Baltimore. 808 *N. Fremont Av.*
Mr. Marston's School. *Group I.*

REGINALD LEY MCALL. Redhill, England. 509 *N. Carey St.*
Weymouth College (England). *Group III.*

HENRY CLAY MILLER. Baltimore. 1009 *N. Charles St.*
Milton Academy. *Group V.*

LYMAN CLEMENTS MURPHY. Baltimore. 808 *Gorsuch Av.*
Mr. Marston's School. *Group III.*

THOMAS COULSON PINKERTON. Baltimore. *Walbrook.*
Dr. Deichmann's School. *Group III.*

HARRY B. RAFFEL. Baltimore. 728 *Lennox St.*
Private Instruction. *Group VI.*

CHARLES REIDER. Glen Rock, Pa. 1105 *Clifton Place.*
York Collegiate Institute. *Group I.*

RALPH CARLTON SHARRETTS. Baltimore. *Liberty Road.*
Private Instruction. *Group VI.*

LLOYD PARKER SHIPPEN. Baltimore. 209 *W. Monument St.*
Mr. Marston's School. *Group III.*

SIDNEY SMITH. Louisville, Ky. *The St. Paul.*
Mr. Flexner's School. *Group VI.*

WILSON LEVERING SMITH. Baltimore. 1011 *St. Paul St.*
Mr. Marston's School. *Group II.*

JULIAN SAMUEL STEIN. Baltimore. 2245 *Eutaw Place.*
The Hotchkiss School (Conn.). *Group VI.*

ELLIOT STROUSE. Baltimore. 1724 *Eutaw Place.*
Private Instruction. *Group VI.*

HENRY MICHAEL WARNER. Baltimore. 1303 *Madison Av.*
Private Instruction. *Group II.*

FRANCIS JOSEPH WASHINGTON. St. Louis, Mo. 409 *Park Av.*
Smith Academy (St. Louis). *Group III.*

AUGUSTUS PRICE WEST. Baltimore. 2438 *Maryland Av.*
Private Instruction. *Group IV.*

LEWIS JOSEPH WHITE. Louisville, Ky. 1314 *McCulloh St.*
Mr. Flexner's School. *Preliminary Year.*

PEREGRINE WROTH, JR. Baltimore. 215 *E. Preston St.*
Mr. C. Maupin, Instructor. *Group III.*

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Special Students.

George Cator.	Baltimore.	803 *St. Paul St.*
Economics.		
Elmer Willis Deen.	Fowling Creek. .	914 *N. Caroline St.*
Wilmington Conference Academy. *Group VI.*		
John Sharshall Grasty.	Baltimore.	1032 *N. Eutaw St.*
Staunton (Va.) Academy. *Group VI.*		
J. Franklin Dix Hoge.	Baltimore.	215 *E. Lafayette Av.*
Private Instruction. *Group II.*		
Harry Louis Homer.	Baltimore County.	*Sherwood.*
Baltimore Polytechnic Institute. *Group III.*		
Louis Sonneborn Hutzler.	Baltimore.	1403 *Eutaw Place.*
Private Instruction. *Group II.*		
Albert Marion Knapp.	Baltimore.	*Catonsville.*
Mr. Lamb's School. *Group II.*		
Henry Blaine Law.	Cadiz, O.	1708 *Linden Av.*
Cadiz High School. *Group VI.*		
Shirley Corbin Morgan.	Aberdeen.	*Aberdeen.*
Cheltenham Academy (Pa.). *Group VI.*		
John Maurice Rehberger.	Baltimore.	1709 *Aliceanna St.*
Baltimore Polytechnic Institute. *Group IV.*		
Paul Edward Schaun.	Baltimore.	705 *N. Howard St.*
Dr. Deichmann's School. *Group IV.*		
William James Sneeringer, Jr.	Baltimore.	1315 *N. Charles St.*
Mr. Marston's School. *Group II.*		
Edwin Martin Spencer.	St. Joseph, Mo.	1305 *Maryland Av.*
Virginia Military Institute. *Group VI.*		

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Attendants on Single Courses.

English.

Rev. Robert Emory Golladay.	Baltimore.	1028 *Milton Place.*
St. Paul's Theological Seminary (N. C.).		
Albert W. Rayner.	Baltimore.	1814 *Eutaw Place.*

History and Politics.

David Newell Shuter.	Baltimore.	301 *E. North Av.*
Law School, University of Maryland.		
Jack Quarels Hewlett Smith, Jr.	Pittsburg, Pa.	
Western University of Pennsylvania; Law School, University of Maryland.		

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GOVERNMENT OF THE JOHNS HOPKINS UNIVERSITY.

TRUSTEES.

The Trustees are the ultimate source of authority in all matters pertaining to the University. They act collectively, through the standing committees named on page 2, and through the President of the University, who is *ex officio* a member of the Board.

PRESIDENT.

Daniel C. Gilman.

The duties of this office were thus defined by the Trustees, September 14, 1876:

The President of the University is the authorized means of communication between the Board and the various officers of instruction and administration employed in the University; it shall be his duty to consult with the Professors, in respect to the development of their various departments, and the general interests of the University; to determine the appropriate duties of the Associates and Fellows; and to exercise such superintendence over the buildings, apparatus, books, and other property as will insure their protection and appropriate use In respect to these matters and all others which concern the welfare of the University, he shall consult frequently with the Executive Committee, and he shall attend the meetings of the Board of Trustees. Purchases, alterations, repairs, and other incidental expenses must not be ordered by any of the officers of the University without his previous assent, or the expressed authority of the Board.

ACADEMIC COUNCIL.

D. C. Gilman (*Pres.*),	H. A. Rowland,	Simon Newcomb,
B. L. Gildersleeve,	Paul Haupt,	E. H. Griffin,
Ira Remsen (*Sec'y*),	W. H. Welch,	H. B. Adams.

By authority of the Trustees, the Academic Council (now consisting of the President and eight Professors) has met since the organization of the University to guide the various departments of study, to select the Fellows, and to act upon such other matters as may be brought before them.

BOARD OF UNIVERSITY STUDIES.

D. C. Gilman (*Pres.*)	Thomas Craig,	K. F. Smith,
B. L. Gildersleeve,	A. M. Elliott,	Sidney Sherwood,
Ira Remsen,	H. N. Morse,	J. M. Vincent,
H. A. Rowland,	Henry Wood,	H. F. Reid,
Paul Haupt,	W. H. Howell,	C. W. E. Miller,
W. H. Welch,	J. W. Bright,	B. J. Vos,
Simon Newcomb,	W. Hand Browne,	J. H. Hollander,
E. H. Griffin,	W. B. Clark,	Christopher Johnston,
H. B. Adams,	J. S. Ames,	C. C. Marden,
W. K. Brooks,	E. H. Spieker,	E. B. Mathews,
Maurice Bloomfield,	E. A. Andrews,	W. W. Willoughby.

By request of the Academic Council (October 8, 1883), this Board, consisting of the President, nineteen Professors, and thirteen Associate Professors, has charge of the arrangements for the instruction of graduate students, and of the examinations for the degree of Doctor of Philosophy.

ADVISORY BOARD OF THE MEDICAL SCHOOL.

D. C. Gilman (*Pres.*),	H. M. Hurd,	J. J. Abel,
Ira Remsen,	H. A. Kelly,	W. H. Howell (*Dean*),
W. H. Welch,	W. K. Brooks,	F. P. Mall,
William Osler,	W. S. Halsted,	J. W. Williams.

This Board was constituted by resolution of the Trustees (April 3, 1893) "to report to the Trustees from time to time their suggestions, and to prepare and carry forward the proper arrangements for the instruction and graduation of medical students."

BOARD OF COLLEGIATE ADVISERS.

D. C. Gilman (*Pres.*),	W. Hand Browne,	L. S. Hulburt,
Ira Remsen,	H. E. Greene,	B. J. Vos,
E. H. Griffin (*Dean*),	J. S. Ames,	G. P. Dreyer,
H. B. Adams,	E. H. Spieker (*Sec'y*),	J. E. Gilpin,
A. M. Elliott,	E. A. Andrews,	E. B. Mathews,
H. N. Morse,	K. F. Smith,	C. C. Marden,
Henry Wood,	Sidney Sherwood,	H. L. Wilson.
Edward Renouf,	J. M. Vincent,	

By request of the Academic Council (May 13, 1882), the Board of Collegiate Advisers, consisting of the President and of representatives from each of the chief departments of undergraduate study, confers upon the progress made by the undergraduates and special students, and conducts the examinations for matriculation and for the baccalaureate degree, under the direction of the Academic Council. The other teachers of undergraduates may be called in from time to time to consult.

By resolution of this Board (June 15, 1888), a Standing Committee was appointed to act on all routine matters. The Committee now consists of E. H. Griffin, E. Renouf, E. H. Spieker, and S. Sherwood.

COMMITTEE ON THE LIBRARY.

D. C. Gilman (*Pres.*),	Ira Remsen,	N. Murray (*Sec'y*).
B. L. Gildersleeve,	W. Hand Browne,	

COMMITTEE ON THE GYMNASIUM.

D. C. Gilman (*Pres.*),	E. Renouf,	W. M. Mackdermott.
James L. McLane,	H. F. Reid,	

ADVISORY BOARD OF THE YOUNG MEN'S CHRISTIAN ASSOCIATION.

D. C. Gilman (*Pres.*),	E. H. Griffin (*Sec'y*),	B. C. Steiner.

TABULAR STATEMENTS.

1. Professors and Instructors, 1899–1900.

President and Professors,	30
Clinical Professors,	7
Associate Professors,	17
Associates,	25
Instructors and Assistants,	32
Lecturers,	20
	131

The enumeration includes 47 professors and other instructors whose work lies wholly in the Medical School.

2. Students Enrolled, 1899–1900.

Fellows by Courtesy,	13
Fellows,	23
Other Graduates,	149
Candidates for the Degree of M. D.,	211
Physicians attending Special Courses,*	73
Undergraduates,	159
Special Students,	17
Total,	645

*Including those entering in 1899 after the issue of the last Register.

3. Enumeration of Degrees of Students.

The above enumeration of students includes—

Doctors of Philosophy,	14	Bachelors of Science,	80
Doctors of Medicine,	76	Bachelors of Philosophy,	20
Masters of Arts,	49	Other Graduates,	17
Masters of Science,	7	Clergymen,	11
Bachelors of Arts,	279		

4. ATTENDANCE UPON THE VARIOUS COURSES OF INSTRUCTION, 1899–1900.

Mathematics and Astronomy,	60	Semitic Languages,	31
Physics,	91	German,	121
Chemistry,	116	Romance Languages,	90
Geology and Mineralogy,	31	English and Anglo-Saxon,	160
Biology,	154	History and Political Science,	121
Greek,	38	Philosophy,	56
Latin,	67	Drawing,	58
Sanskrit and Comp. Philology,	38	Forensics and Elocution,	153

5. RESIDENCES OF STUDENTS, 1899–1900.

Maryland (Baltimore, 215),	262	Kansas,	3
New York,	38	Louisiana,	2
Virginia,	37	Montana,	2
Pennsylvania,	35	Arkansas,	1
Massachusetts,	22	Delaware,	1
California,	19	Mississippi,	1
Illinois,	19	Nevada,	1
Ohio,	17	New Hampshire,	1
Connecticut,	16	North Dakota,	1
District of Columbia,	14	Oregon,	1
Kentucky,	14	Rhode Island,	1
Maine,	14	Tennessee,	1
North Carolina,	14	Texas,	1
Alabama,	11	Utah,	1
Georgia,	11	Vermont,	1
Wisconsin,	11		
Missouri,	8	Canada,	9
South Carolina,	8	Hawaiian Islands,	2
New Jersey,	7	India,	2
Indiana,	6	Japan,	2
Minnesota,	6	Ceylon,	1
West Virginia,	6	England,	1
Michigan,	5	Italy,	1
Iowa,	4	Jamaica,	1
Colorado,	3		

6. INSTITUTIONS IN WHICH THE STUDENTS (1899–1900) WERE GRADUATED.

Johns Hopkins University,	77	Vermont, University of,	3
Yale University,	30	Wesleyan University (Conn.),	3
Harvard University,	19	West Virginia University,	3
Maryland, University of,	14	Woman's Medical Coll. (Phila.),	3
Randolph-Macon College,	13	Baltimore Medical College,	2
Virginia, University of,	12	Bellevue Hospital Med. College,	2
Princeton University,	11	Brooklyn Polytechnic Institute,	2
Wellesley College,	10	Buffalo, University of,	2
Hampden-Sidney College,	9	Central University (Ky.),	2
Wisconsin, University of,	9	Dalhousie University,	2
California, University of,	8	Davidson College,	2
Phys. and Surg., Coll. of (Balt.),	8	Delaware College,	2
Stanford University,	8	Dickinson College,	2
Amherst College,	7	Earlham College,	2
Smith College,	7	Franklin and Marshall College,	2
Bowdoin College,	6	Illinois, University of,	2
Cooper Medical College,	6	Kentucky State College,	2
Cornell University,	6	Maryland Agricultural College,	2
Georgia, University of,	6	Massachusetts Inst. of Tech.,	2
Williams College,	6	North Carolina, University of,	2
Chicago, University of,	5	Oberlin College,	2
Union College,	5	Richmond College,	2
Washington and Jefferson Coll.,	5	Rutgers College,	2
Bryn Mawr College,	4	South Carolina College,	2
Cincinnati, University of,	4	Tokyo College of Science,	2
Columbian University,	4	Trinity College (N. C.),	2
Knox College,	4	Trinity University (Ont.),	2
Michigan, University of,	4	Virginia Military Institute,	2
Minnesota, University of,	4	Wake Forest College,	2
New York University,	4	Washington University,	2
Pennsylvania College,	4	Western Maryland College,	2
Toronto, University of,	4	Adelbert College,	1
Columbia, University of,	3	Alabama Medical College,	1
Indiana University,	3	Alabama, University of,	1
Jefferson Medical College,	3	Albion College,	1
Kansas State University,	3	Birmingham (Ala.) Med. Coll,	1
Lafayette College,	3	Boston University,	1
Luther College,	3	Breslau, University of,	1
Ohio Wesleyan University,	3	Brown University,	1
Pennsylvania, University of,	3	Campbell University (Kan.),	1
Phys. & Surg., Coll. of (Chicago),	3	Central College (Mo.),	1
St. John's College,	3	Central Pennsylvania College,	1

Centre College (Ky.), - - - - 1
Charleston, College of, - - - 1
Chattanooga Med. Coll., - - - 1
Cornell College, - - - - - 1
Detroit Medical College, - - - 1
Elon College (N. C.), - - - - 1
Emory and Henry College, - - 1
Episcopal Theol. School (Cambridge, - - - - - - - - 1
Erskine College, - - - - - - 1
France, University of, - - - - 1
Fredericksburg College, - - - 1
General Theological Sem. (N. Y), 1
Georgetown College (Ky.), - - 1
Giessen, University of, - - - 1
Hahnemann Medical College, - 1
Hamline University, - - - - 1
Haverford College, - - - - - 1
Hebrew Union College, - - - 1
Hobart College, - - - - - - 1
Iowa College, - - - - - - - 1
Iowa State University, - - - 1
Kentucky University, - - - - 1
Kentucky Wesleyan College, - 1
Leipzig, University of, - - - 1
Long Island Medical College, - 1
Loyola College, - - - - - - 1
McGill University, - - - - - 1
Medico-Chirurg. Coll. (Phila.), - 1
Missouri Medical College, - - 1
Nashville, University of, - - - 1
New Hampshire College, - - - 1
North Carolina Agric. College, - 1
North Dakota, University of, - 1
Otterbein University, - - - - 1
Phys. & Surg., Coll. of (Atlanta), 1
Phys. & Surg., College of (N. Y.), 1
Princeton Theological Seminary, 1
Queen's University, - - - - 1
Racine College, - - - - - - 1
Roanoke College, - - - - - - 1
Rochester, University of, - - - 1
Rock Hill College, - - - - - 1
South Carolina Medical College, 1
Southern University, - - - - 1
Southwestern Presbyterian Univ., 1
Stevens Inst. of Technology, - - 1
St. Paul's Seminary (Minn.), - 1
St. Stephen's College, - - - - 1
St. Thomas's College (Minn.), - 1
Tennessee, University of,, - - 1
Tulane University, - - - - - 1
Union Theological Sem. (Va.), - 1
Utah, University of, - - - - 1
Vanderbilt University, - - - 1
Virginia Theological Seminary, 1
Wabash College, - - - - - - 1
Washington and Lee University, 1
Western Theological Sem. (Pa.), 1
Westminster College (Pa.), - - 1
Westminster Theol. Sem. (Md.), 1
Williamsport Dickinson Sem., - 1
Wilmington College (O.), - - - 1
Wilson College (Pa.), - - - - 1
Wittenberg College, - - - - 1
Woman's College of Baltimore, 1
Woman's Medical College (Balt.), 1
Woman's Medical College (N.Y.), 1
Woodstock College (Md.), - - 1
Wooster, University of, - - - 1

7. Fellows.

Bruce Memorial Fellows in Biology.

This Fellowship was instituted by Mrs. Bruce, of New York, to commemorate the name of her son, Adam T. Bruce, Jr., Ph. D., Fellow in Biology, 1883–84, and Instructor in Osteology and Mammalian Anatomy, 1885–87. Preference is given to those who have held an ordinary Fellowship in Biology.

(When the institution is not named, this university is to be understood. *—Deceased.)

1888. Henry Van Peters Wilson, Ph. D. (1888), Prof. of Biology, Univ. of North Carolina.

1889. Shozaburo Watase, Ph. D. (1890), Prof. of Cellular Biology, Univ. of Tokyo.

1890. Thomas Hunt Morgan, Ph. D. (1890), Prof. of Biology, Bryn Mawr College. *Reappointed* 1891, *but resigned.*

1891, 1892. Robert Payne Bigelow, Ph. D. (1892), Instructor in Biology and Librarian, Mass. Inst. of Technology; Editor-in-Chief, *American Naturalist.*

1893. Maynard Mayo Metcalf, Ph. D. (1893), Prof. of Biology, Woman's College of Baltimore.

1894. Ross Granville Harrison, Ph. D. (1894), M. D., Assoc. Prof. of Anatomy. *Did not enter on the fellowship.*

1894. Seitaro Goto, S. D., Prof. of Biology, First High School, Tokyo, Japan.

1895. Henry McElderry Knower, Ph. D. (1896), Instructor in Anatomy.

1895, 1896. George Lefevre, Ph. D. (1896), Prof. of Zoology, Univ. of Missouri.

1897. *Franklin Story Conant, Ph. D. (1897). *Did not enter on the fellowship.*

1897. Duncan Starr Johnson, Ph. D. (1897), Associate in Botany.

1898. Gilman Arthur Drew, Ph. D. (1898), Assistant in Zoology. *Did not enter on the fellowship.*

1899. Caswell Grave, Ph. D. (1899), Scientific Investigator, U. S. Fish Commission.

Fellows.

(Arranged under the date of first appointment. When the institution is not named, this university is to be understood. Figures in brackets indicate the tenure of the fellowship, when it was held more than one year. *—Deceased.)

1876.

Henry Carter Adams, Ph. D., Prof. of Political Economy and Finance, Univ. of Michigan; Statistician, Interstate Commerce Commission.—[1876–79].

Herbert Baxter Adams, Ph. D., LL. D., Prof. of American and Institutional History.—[1876–78.]

William Keith Brooks, Ph. D., LL. D., Prof. of Zoölogy; Director of the Chesapeake Zoölogical Laboratory. *Did not enter on the fellowship.*

Samuel Fessenden Clarke, Ph. D., Prof. of Natural History, Williams Coll.—[1876–79.]

Thomas Craig, Ph. D., Prof. of Pure Mathematics.—[1876–79].

Joshua Walker Gore, C. E., Prof. of Natural Philosophy and Engineering, Univ. of North Carolina.—[1876–78].

George Bruce Halsted, Ph. D., Prof. of Mathematics, Univ. of Texas.—[1876–78].

Edward Hart, Ph. D., Prof. of Analytical Chemistry, Lafayette Coll.—[1876–78].

Daniel Webster Hering, C. E., Prof. of Physics, New York Univ.—[1876–78].

Malvern Wells Iles, Ph. D., Consulting Metallurgist, London, England.—[1876–78].

William White Jacques, Ph. D., Lecturer on Telegraph Engineering, Mass. Inst. of Tech., 1885–91; Electrical Engineer, Boston, Mass.—[1876–79].

Charles Rockwell Lanman, Ph. D., Prof. of Sanskrit, Harvard Univ.; Turnbull Lecturer, 1897–98.

David McGregor Means, A. B., Prof. of Political and Mental Science, Middlebury Coll., 1877–80; Attorney at Law, New York City.

Harmon Northrup Morse, Ph. D., Prof. of Analytical Chemistry. *Did not enter on the fellowship.*

Walter Hines Page, Professor in Louisville (Ky.) Male High School, 1878–79; New York City.—[1876–78].

*Peter Porter Poinier, M. E. *Did not enter on the fellowship.*

Erasmus Darwin Preston, C. E., U. S. Coast and Geodetic Survey, Washington.—[1876–78].

*Henry Joseph Rice, Sc. D., Prof. of Natural Sciences, Brooklyn (N. Y.) High School, 1882–85.—[1876–78].

Josiah Royce, Ph. D., Prof. of the History of Philosophy, Harvard.—[1876–78].

Alexander Duncan Savage, B. Litt., New York City.—[1876–79].

Ernest Gottlieb Sihler, Ph. D., Prof. of Latin, New York Univ.—[1876–79].

Frederick Boyd Van Vorst, A. B., Attorney at Law, New York City.

*John Henry Wheeler, Ph. D., Prof. of Greek, Univ. of Virginia, 1882–87.

1877.

Francis Greenleaf Allinson, Ph. D., Prof. of Classical Philology, Brown Univ.—[1877–80].

Fabian Franklin, Ph. D., Assistant, Associate, Assoc. Prof., and Prof. of Mathematics, 1879–95; Editor of *The Baltimore News*.—[1877–79].

Lyman Beecher Hall, Ph. D., Prof. of Chemistry, Haverford Coll.—[1877–79].

Allan Marquand, Ph D., L. H. D., Prof. of Archæology and the History of Art, Princeton.—[1877–80].

1878.

Maurice Bloomfield, Ph. D., LL. D., Prof. of Sanskrit and Comparative Philology.

Constantine Fahlberg, Ph. D., Chemist, Salbke-Westerhüsen, Germany.—[1878–80].

Edwin Herbert Hall, Ph. D., Prof. of Physics, Harvard Univ.—[1878–80].

Edward Coles Harding, A. M., Prof. of Greek, Univ. of Louisiana, 1879–80; Editor of the *Baltimore American*.

Rev. Charles Robert Hemphill, D. D., Prof. of New Testament Exegesis, Louisville Presbyterian Theol. Sem.; Clergyman, Louisville, Ky.

Isaac Ott, M. D., Prof. of Physiology, Medico-Chirurgical Coll. of Philadelphia.

Henry Sewall, Ph. D., M. D., Prof. of Physiology, Univ. of Denver.

Christian Sihler, Ph. D., M. D., Instructor and Acting Prof. of Histology, etc., Western Reserve Univ., 1889–94; Physician, Cleveland, Ohio.—[1877–79].

Washington Irving Stringham, Ph. D., Prof. of Mathematics, Univ. of California.—[1878–80].

Charles Ambrose Van Velzer, S. B., Prof. of Mathematics, Univ. of Wisconsin.—[1878–81].

Abram Van Epps Young, Ph. B., Prof. of Chemistry, Northwestern Univ.—[1878–80].

1879.

Brown Ayres, S. B., Prof. of Physics and Electricity, Tulane Univ.

Louis Bevier, Ph. D., Prof. of Greek, Rutgers Coll.—[1879–81].

William Burney, Ph. D., Prof. of Chemistry, South Carolina Coll.

Edward Mussey Hartwell, Ph. D., M. D., LL. D., Director of Physical Training, Boston Public Schools, 1891–97; Secretary, Dept. of Municipal Statistics, Boston.—[1878–81].

*John Robin McDaniel Irby, Ph. D.

Mitsuru Kuhara, Ph. D., Director and Prof. of Chemistry, First Middle School, Tokyo.—[1879–81].

*Oscar Howard Mitchell, Ph. D., Prof. of Mathematics, Marietta Coll., 1882–89.—[1879–82].

Edward Leamington Nichols, Ph. D., Prof. of Physics, Cornell Univ.
George Frederick Nicolassen, Ph. D., Prof. of Greek and German, Southwestern Presbyterian Univ., Tenn.—[1879–81].
Waldo Selden Pratt, A. B., Mus. D., Prof. of Ecclesiastical Music and Hymnology, Hartford (Conn.) Theol. Sem.
Robert Woodworth Prentiss, M. S., Prof. of Mathematics and Astronomy, Rutgers Coll. —[1879–81].
William Thompson Sedgwick, Ph. D., Prof. of Biology, Mass. Inst. of Tech.; Biologist, Mass. Board of Health; Curator, Lowell Inst., Boston.
*Herman Voorhees, C. E. *Did not enter on the fellowship.*
Charles Otis Whitman, Ph. D., LL. D., Prof. of Zoölogy, Univ. of Chicago. *Did not enter on the fellowship.*
Edmund Beecher Wilson, Ph. D., Prof. of Zoölogy, Columbia Univ.—[1879–81].

1880.

James Wilson Bright, Ph. D., Prof. of English Philology.—[1880–82].
Benjamin Chapman Burt, A. B., Acting Prof. of Philosophy and Pedagogy, Univ. of Colorado, 1894–95; Superior, Neb.
Robert Dorsey Coale, Ph. D., Prof. of Chemistry and Toxicology, Univ. of Md.
Lawrence Bunting Fletcher, Ph. D., Instructor in Physics, Wesleyan Univ., 1882–83; Marlboro, N. Y.
*Spencer Hedden Freeman, A. B., Prof. of Physics and Astronomy, Adelbert Coll., 1882–86.—[1880–82].
Kakichi Mitsukuri, Ph. D., Prof. of Zoölogy, Univ. of Toyko, Japan.
Bernard Francis O'Connor, Ph. D., Instructor and Adjunct Prof. of Romance Lang., Columbia Univ., 1883–91; New York City.—[1880–82].
Chase Palmer, Ph. D., Prof. of Chemistry, Manual Training High School, Louisville, Ky.—[1880–82].
Herbert Mills Perry, A. B., late Instructor, Cascadilla School, Ithaca.—[1880–82].
William Lee Rowland, S. B., Chemist, Philadelphia. *Did not enter on the fellowship.*
Andreas Franz Wilhelm Schimper, Ph. D., Prof. of Botany, Univ. of Basle.
Edward Henry Spieker, Ph. D., Assoc. Prof. of Greek and Latin.—[1880–82].
Morrison Isaac Swift, Ph. D., Instructor in Philosophy, Hobart Coll., 1882–84.—[1880–82].
*Arthur Wilson Wheeler, A. B.

1881.

William John Alexander, Ph. D., Prof. of English, Univ. of Toronto.—[1881–83].
Edward Sanford Burgess, A. B., Prof. of Natural Science, Normal Coll., N. Y.
William James Comstock, Ph. D., Instructor in Organic Chemistry, Yale Univ.
William Cathcart Day, Ph. D., Prof. of Chemistry and Physics, Swarthmore Coll.—[1881–83].
Henry Herbert Donaldson, Ph. D., Prof. of Comparative Neurology, Univ. of Chicago.—[1881–83].
William Pitt Durfee, Ph. D., Prof. of Mathematics and Dean of the Faculty, Hobart Coll.—[1881–83].
George Stetson Ely, Ph. D., Examiner, U. S. Patent Office.—[1881–83].
Benjamin Ives Gilman, A. B., Curator, Museum of Fine Arts, Boston, Mass.
John Franklin Jameson, Ph. D., LL. D., Prof. of History, Brown Univ.
Charles Herschel Koyl, A. B., Instructor in Physics, Swarthmore Coll., 1887–88; New York City.—[1881–83].
Henry Leslie Osborn, Ph. D., Prof. of Biology and Geology, Hamline Univ.
Henry Newlin Stokes, Ph. D., Asst. Prof. of Chemistry, Univ. of Chicago, 1892–94; U. S. Geological Survey, Washington.—[1881–83].
Benjamin Willis Wells, Ph. D., Prof. of Modern Lang., Univ. of the South. *Did not enter on the fellowship.*

1882.

Charles John Bell, A. B., Prof. of Chemistry, Univ. of Minnesota. *Did not enter on the fellowship.*
James McKean Cattell, Ph. D., Prof. of Psychology, Columbia Univ.; Editor of *Science.*
Ellery William Davis, Ph. D., Prof. of Mathematics, Univ. of Nebraska.—[1882–84].
David Talbot Day, Ph. D., U. S. Geological Survey, Washington, D. C.—[1882–84].
Alfred Emerson, Ph. D., Assoc. Prof. of Classical Archæology, Cornell Univ.—[1882–84].
William Scott Fleming, A. B., Prof. of Greek, Davidson Coll., 1883–85; Wetumpka, Ala.
Arthur Lincoln Frothingham, Jr., Ph. D., Prof. of Ancient History and Archæology, Princeton.—[1882–85].
Henry Root Goodnow, A. B., New York City.
Elgin Ralston Lovell Gould, Ph. D., President, City and Suburban Homes Co., New York.—[1882–84].
Arthur Stafford Hathaway, S. B., Prof. of Mathematics, Rose Polytech. Inst.—[1882–84].
William Henry Howell, Ph. D., M. D., Prof. of Physiology.—[1882–84].
Edward Harrison Keiser, Ph. D., Prof. of Chemistry, Washington Univ.—[1882–84].
Arthur Lalanne Kimball, Ph. D., Prof. of Physics, Amherst Coll.
Harry Fielding Reid, Ph. D., Assoc. Prof. of Geological Physics. *Did not enter on the fellowship.*

1883.

William Muss Arnolt, Ph. D., Instructor and Assistant Recorder, Univ. of Chicago.—[1883–85].
Gustav Bissing, Ph. D., Examiner, U. S. Patent Office, 1884–97; Patent Attorney, Washington.
*Adam Todd Bruce, Ph. D., Instructor in Osteology, etc., 1886–87.
Archibald Lamont Daniels, D. Sc., Prof. of Mathematics and Physics, Univ. of Vermont.
John Dewey, Ph. D., Prof. of Philosophy, Univ. of Chicago.
*James Reynolds Duggan, Ph. D., Prof. of Chemistry, Wake Forest, 1886–88.
Hans Carl Günther von Jagemann, Ph. D., Prof. of Germanic Philology, Harvard.
*Gustav Adolph Liebig, Jr., Ph. D., Assistant in Electricity, 1887–90.—[1883–85].
Charles William Emil Miller, Ph. D., Assoc. Prof. of Greek.—[1883–85].
Charles Albert Perkins, Ph. D., Prof. of Physics, Univ. of Tennessee.
*Louis Tebbetts Stevens, M. D., late Lecturer, Washington Univ.
Lewis Webb Wilhelm, Ph. D., Mathematical Instructor, Baltimore.

1884.

Ethan Allen Andrews, Ph. D., Assoc. Prof. of Biology.—[1884–86].
Henry Crew, Ph. D., Prof. of Physics, Northwestern Univ.—[1884–86].
Homer Winthrop Hillyer, Ph. D., Asst. Prof. of Organic Chemistry, Univ. of Wisconsin.
Rev. Abel Henry Huizinga, Ph. D., Adjunct Prof., McCormick Theol. Sem., 1894–96; Clergyman, Fishkill, N. Y.—[1884–86].
Frederick Schiller Lee, Ph. D., Adjunct Prof. of Physiology, Columbia Univ.
Charles Herbert Levermore, Ph. D., President of Adelphi College, Brooklyn.
Henry Francis Nachtrieb, S. B., Prof. of Biology, Univ. of Minnesota.
Henry Barber Nixon, Ph. D., Prof. of Mathematics, Pennsylvania Coll.
William Noyes, Jr., M. D., Superintendent, Boston Insane Hospital, Mattapan, Mass.
Albert Gallatin Palmer, Ph. D., Asst. Prof. of Chemistry, Swarthmore Coll., 1886–87; Norwood, Md.
Ernest Mondell Pease, A. B., Prof. of Latin, Stanford Univ.—[1884–86].
Albert Harris Tolman, Ph. D., Asst. Prof. of English Literature, Univ. of Chicago. *Did not enter on the fellowship.*
Woodrow Wilson, Ph. D., LL. D., Lecturer on Constitutional Law, New York Law School; Prof. of Jurisprudence and Politics, Princeton.

1885.

Cyrus Adler, Ph. D., Librarian of the Smithsonian Institution; Prof. of Oriental History and Archæology, Columbian Univ.—[1885–87].
*David Barcroft, Ph. D.
William Shirley Bayley, Ph. D., U. S. Geological Survey; Prof. of Geology and Mineralogy, Colby Univ.—[March, 1885–June, 1886].
Louis Bell, Ph. D., Prof. of Physics, Purdue Univ., 1888–90; Chief Engineer, General Electric Company, Chicago, Ill.—[1885–87].
William Henry Burnham, Ph. D., Instructor in Pedagogy, Clark Univ.
Francis Albert Christie, A. B., Prof. of Church History, Theol. School, Meadville, Pa.—[1885–87].
Davis Rich Dewey, Ph. D., Prof. of Economics and Statistics, Mass. Inst. of Tech.
Albert E. Egge, Ph. D., Prof. of English, Washington Agric. Coll.
William Henry Emerson, Ph. D., Prof. of Chemistry, Georgia School of Tech.
John Charles Fields, Ph. D., late Prof. of Mathematics, Allegheny Coll.; Student in Berlin.
Joseph Jastrow, Ph. D., Prof. of Experimental Psychology, Univ. of Wisconsin.
George Theophilus Kemp, Ph. D., M. D., Prof. of Physiology, Univ. of Illinois.
Marion Dexter Learned, Ph. D., Prof. of German, Univ. of Pennsylvania.
Gonzalez Lodge, Ph. D., Prof. of Latin, Bryn Mawr College.
Arthur McDonald, A. B., Bureau of Education, Washington. D. C. *Did not enter on the fellowship.*
Charles Skeele Palmer, Ph. D., Prof. of Chemistry, Univ. of Colorado.
George Thomas White Patrick, Ph. D., Prof. of Philosophy, Iowa State Univ. *Reappointed* 1887, *but resigned.*
Moses Stephen Slaughter, Ph. D., Prof. of Latin, Univ. of Wisconsin.
Charles Whetham, A. B., President of Whetham Coll., Vancouver, B. C., 1890–98; Toronto, Ont.
Charles Baker Wright, A. B., Prof. of English Literature and Rhetoric, Middlebury Coll. *Did not enter on the fellowship.*

1886.

Edgar Pierce Allen, A. B., Attorney at Law, New York City.—[1886–88].
John Pendleton Campbell, Ph. D., Prof. of Biology, Univ. of Georgia.
Henry Clarke, A. B., Classical Instructor, London, England.
Herbert Charles Elmer, Ph. D., Asst. Prof. of Latin, Cornell Univ.
Henry Brayton Gardner, Ph. D., Assoc. Prof. of Political Economy, Brown Univ.
*Milton Haight, A. B., Prof. of English and Mathematics, Sapporo Agric. Coll., Japan, 1887–92; Instructor, Collegiate Inst., Strathroy, Canada, 1893–96.
John Leslie Hall, Ph. D., Prof. of English and History, William and Mary Coll.
Charles Willard Hayes, Ph. D., U. S. Geological Survey, Washington.
George Benjamin Hussey, Ph. D., Docent, Univ. of Chicago.
James Hervey Hyslop, Ph. D., Prof. of Logic and Ethics, Columbia Univ.
Andrew Cowper Lawson, Ph. D., Prof. of Geology, Univ. of California.
Franklin Paine Mall, M. D., Prof. of Anatomy.—[1886–88].
Yujiro Motora, Ph. D., Prof. of Psychology, etc., Univ. of Tokyo, Japan.
Julius Nelson, Ph. D., Prof. of Biology, Rutgers Coll.
William Ridgely Orndorff, Ph. D., Asst. Prof. of Organic Chemistry, Cornell Univ.
Daniel Richard Randall, Ph. D., Attorney at Law, Annapolis, Md.
Henry Dallas Thompson, D. Sc., Ph. D., Prof. of Mathematics, Princeton.
Edward Burr Van Vleck, Ph. D., Assoc. Prof. of Mathematics, Wesleyan Univ.
Amos Griswold Warner, Ph. D., Prof. of Economics, Stanford Univ.
John Roaf Wightman, Ph. D., Prof. of Romance Lang., Oberlin Coll.

1887.

Joseph Sweetman Ames, Ph. D., Prof. of Physics.
Philip Wheelock Ayres, Ph. D., Asst. Secretary, Charity Organization Society, N. Y.
William Snyder Eichelberger, Ph. D., Prof. of Mathematics, U. S. Navy, Washington.

Henry Rushton Fairclough, Ph. D., Assoc. Prof. of Greek and Latin, Stanford Univ. *Did not enter on the fellowship.*

*William Curns Lawrence Gorton, Ph. D., Assoc. Prof. and Prof. of Mathematics and Astronomy, Woman's Coll., Balt., 1888-94.

William Herbert Hobbs, Ph. D., Asst. Prof. of Mineralogy and Metallurgy, Univ. of Wisconsin.

Joseph Hoeing Kastle, Ph. D., Prof. of Chemistry, Kentucky State Coll.

Felix Lengfeld, Ph. D., Asst. Prof. of Inorganic Chemistry, Univ. of Chicago.

Archibald MacMechan, Ph. D., Prof. of English, Dalhousie Univ.

Herbert William Magoun, Ph. D., Prof. of Latin, Redfield College, S. Dak.

*Thomas McCabe, Ph. D., Assoc. in Romance Lang., Bryn Mawr, 1890-91.

John Leverett Moore, Ph. D., Prof. of Latin, Vassar Coll.

Augustus Taber Murray, Ph. D., Prof. of Greek, Stanford Univ.

Edmund Clark Sanford, Ph. D., Asst. Prof. of Psychology, Clark Univ.

Charles Lee Smith, Ph. D., Prof. of History, William Jewell Coll., Mo.

Arthur Clarence Wightman, Ph. D., Adjunct Prof. of Biology and Physics, Randolph Macon Coll.

Henry Van Peters Wilson, Ph. D., Bruce Fellow, 1888-89; Prof. of Biology, Univ. of North Carolina.

1888.

Charles McLean Andrews, Ph. D., Assoc. Prof. of History, Bryn Mawr.

Frank Wilson Blackmar, Ph. D., Prof. of History and Sociology, Univ. of Kansas.

Charles Augustus Borst, A. B., Assistant in Astronomy, 1889-92.

William Merriam Burton, Ph. D., Superintendent, Standard Oil Co., Whiting, Ind.

Morgan Callaway, Jr., Ph. D., Prof. of English Philology, Univ. of Texas.

Charles Hiram Chapman, Ph. D., President of the Univ. of Oregon, 1893-99.

Edwin Whitfield Fay, Ph. D., Prof. of Latin and Greek, Univ. of Texas.—[1888-90].

Adam Capen Gill, Ph. D., Asst. Prof. of Mineralogy, etc., Cornell Univ.

Joseph Edward Harry, Ph. D., Prof. of Greek and German, Georgetown Coll., Ky.

James Taft Hatfield, Ph. D., Prof. of German, Northwestern Univ.

*George Allison Hench, Ph. D., Instructor, Asst. Prof., and Prof. of German, Univ. of Michigan, 1890-99.

Clifton Fremont Hodge, Ph. D., Asst. Prof. of Physiology, Clark Univ.

Cary Talcott Hutchinson, Ph. D., Acting Assoc. Prof. of Electricity, 1898-99; Consulting Engineer, N. Y.

Alvin Frank Linn, Ph. D., Prof. of Chemistry and Mineralogy, Wittenberg Coll., O. *Did not enter on the fellowship.*

Thomas Logie, Ph. D., Assoc. Prof. of Romance Lang., Rutgers Coll., 1893-98.

Alfred Edward Thayer, M. D., Physician, New York City.

*James Starr Trueman, A. B., Prof. of Greek and Latin, Allegheny Coll., 1889-92.

Shozaburo Watase, Ph. D., Bruce Fellow, 1889-90; Prof. of Cellular Biology, Univ. of Tokyo.

1889.

Edward Carey Applegarth, Ph. D., M. D., Physician, Baltimore.

Arthur George Blachstein, A. B., M. D., St. Petersburg, Russia.

Rudolf John Julius de Roode, Jr., Ph. D., Analytical Chemist, New York City.

George Peter Dreyer, Ph. D., Associate in Biology.

Hermann Louis Ebeling, Ph. D., Prof. of Greek, Miami Univ., 1891-99; Trenton, N. J.

Charles Jaques Goodwin, Ph. D., Prof. of Greek, Lehigh Univ.

Christopher Johnston, Jr., Ph. D., Assoc. Prof. of Oriental History, etc.—[1889-91].

Hiram Benjamin Loomis, Ph. D., Asst. Prof. of Physics, Northwestern Univ.

John Hanson Thomas McPherson, Ph. D., Prof. of History, Univ. of Georgia.

Thomas Hunt Morgan, Ph. D., Bruce Fellow, 1890; Prof. of Biology, Bryn Mawr.

Daniel Alexander Murray, Ph. D., Instructor in Mathematics, Cornell Univ.

Charles Lane Poor, Ph. D., Instructor, Assoc., and Assoc. Prof. of Astronomy, 1891-99; New York.

George Mann Richardson, Ph. D., Prof. of Organic Chemistry, Stanford Univ.
John Cunningham Robertson, Ph. D., Prof. of Greek, St. Stephen's Coll., N. Y.
Charles Hunter Ross, Ph. D., Adjunct Prof. of Modern Lang., Alabama Polytech. Inst.
Joseph Samuel Shefloe, Ph. D., Prof. of Romance Lang. and Librarian, Woman's Coll., Baltimore.
Robert Benson Steele, Ph. D., Prof. of Latin, Illinois Wesleyan Univ.
Bert John Vos, Ph. D., Assoc. Prof. of German.—[1889–91].
James Albert Woodburn, Ph. D., Prof. of American History, Indiana Univ.

1890.

William Wilson Baden, Ph. D., Prof. of Latin, Univ. of Idaho.—[1890–92].
Robert Payne Bigelow, Ph. D., Bruce Fellow, 1891–93; Instructor in Biology and Librarian, Mass. Inst. of Tech.; Editor-in-Chief, *American Naturalist*.
Edwin Grant Conklin, Ph. D., Prof. of Comparative Embryology, Univ. of Pa.
Rev. William Levering Devries, S. T. B., Ph. D., Clergyman, Washington, D. C.
George Houghton Gilman, A. B., LL. B., Attorney at Law, New York City. *Did not enter on the fellowship.*
Thomas Perrin Harrison, Ph. D., Prof. of English, Davidson Coll.
Charles Rollin Keyes, Ph. D., Mining Expert, Des Moines.
Edwin Seelye Lewis, Ph. D., Prof. of Romance Lang., Princeton.
Arthur Stanley Mackenzie, Ph. D., Prof. of Physics, Bryn Mawr.
Henry Parker Manning, Ph. D., Asst. Prof. of Mathematics, Brown Univ.
Wilfred Pirt Mustard, Ph. D., Prof. of Latin, Haverford Coll.
Barker Newhall, Ph. D., Prof. of Greek, Kenyon Coll., O.
Edward Bennett Rosa, Ph. D., Prof. of Physics, Wesleyan Univ.
Charles Edward Saunders, Ph. D., Prof. of Chemistry, Central Univ., Ky., 1891–93; Ottawa, Canada.
Bernard Christian Steiner, LL. B., Ph. D., Librarian, Enoch Pratt Free Library; Associate in History.
John White, Jr., Ph. D., Adjunct Prof. of Chemistry, Univ. of Nebraska.
Westel Woodbury Willoughby, Ph. D., Assoc. Prof. of Political Science.

1891.

Edward Ambrose Bechtel, A. B., Instructor in Latin, Univ. of Chicago. *Did not enter on the fellowship.*
Julius Blume, Modern Lang. Master, University School, Baltimore, 1892–99.
Albert Bernhardt Faust, Ph. D., Assoc. Prof. of German, Wesleyan Univ.
Simon Flexner, M. D., Prof. of Pathology, Univ. of Pa.
Ulysses Sherman Grant, Ph. D., Prof. of Geology, Northwestern Univ.
William Asbury Harris, Ph. D., Prof. of Greek, Baylor Univ., Texas.
Harry Clary Jones, Ph. D., Associate in Physical Chemistry.
James Lawrence Kellogg, Ph. D., Asst. Prof. of Biology. Williams Coll.
Elmer Peter Kohler, Ph. D., Associate in Chemistry, Bryn Mawr.
*Paul Erasmus Lauer, Ph. D., Assistant Supt. of Schools, Cleveland, O., 1892–93.
David Judson Lingle, Ph. D., Instructor in Physiology, Univ. of Chicago.
John Hanson Thomas Main, Ph. D., Prof. of Greek, Iowa Coll.
Frank Jewett Mather, Jr., Ph. D., Instructor in English, Williams Coll.
Michael Andrew Mikkelsen, Ph. D., Montclair, N. J.
John Dyneley Prince, Ph. D., Prof. of Semitic Lang., etc., New York Univ.
Brantz Mayer Roszel, Ph. D., Instructor in Physics, Washington (D. C.) High School.
George Owen Squier, Ph. D., Captain, U. S. A.; U. S. Signal Service, Washington.
Sidney Grant Stacey, Ph. D., Instructor in Latin, Brooklyn (N. Y.) High School.
Joseph Moody Willard, A. B., Prof. of Mathematics, Pennsylvania State Coll.

1892.

Burleigh Smart Annis, A. B., late Instructor in Mathematics, Northwestern Univ.
Lewellys Franklin Barker, M. D., Assoc. Prof. of Pathology; Asst. Resident Pathologist, Johns Hopkins Hospital.
Melvin Brandow, A. B., Assistant Librarian.
Alexander Mitchell Carroll, Ph. D., Acting Prof. of Latin, Columbian Univ.
Harry Max Ferren, A. B., Instructor in German, Allegheny (Pa.) High School.
David Hull Holmes, Ph. D., Classical Instructor, High School, New York.
Arthur John Hopkins, Ph. D., Asst. Prof. of Chemistry, Amherst Coll.
Theodore Hough, Ph. D., Asst. Prof. of Biology, Mass. Inst. of Tech.
James Alton James, Ph. D., Prof. of History, Northwestern Univ.
Francis Plaisted King, Ph. D., Asst. Geologist of Georgia, 1893–96; Saratoga Springs, N. Y.
Emory Bair Lease, Ph. D., Instructor in Latin, Wesleyan Univ.
*Edward Payson Manning, Ph. D., Instructor, St. Lawrence Univ., 1894–95.
Louis Emil Menger, Ph. D., Assoc. Prof. of Romance Philology, Bryn Mawr.
*Lucius Salisbury Merriam, Ph. D., Instructor in Political Economy, Cornell, 1893–94.
Mayo Maynard Metcalf, Ph. D., Bruce Fellow, 1893; Prof. of Biology, Woman's Coll., Baltimore.
René de Poyen-Bellisle, Ph. D., Instructor in Romance Philology, Univ. of Chicago.
Arthur Percy Saunders, Ph. D., Ithaca, N. Y.
Rev. Daniel Gurden Stevens, Jr., Ph. D., Clergyman, Baltimore.—[1892–94].
Frederick Tupper, Jr., Ph. D., Prof. of Rhetoric and English Lit., Univ. of Vermont.
Frank Alfred Wolff, Jr., Ph. D., Chemist, Department of Agriculture, Washington.

1893.

Thomas Stockham Baker, Ph. D., Associate in German.
John Spencer Bassett, Ph. D., Prof. of History, Trinity Coll., N. C.
George Melville Bolling, Ph. D., Assoc. Prof. of Greek, Catholic Univ.
Abraham Cohen, Ph. D., Associate in Mathematics.
Ervin Sidney Ferry, S. B., Prof. of Physics, Purdue Univ.
William Francis Gallaway, Ph. D., Classical Instructor, Savannah, Ga.
Ross Granville Harrison, Ph. D., M. D., Bruce Fellow, 1894; Assoc. Prof. of Anatomy.
Bert Holmes Hite, M. S., Prof. of Agric. Chemistry, West Va. Univ.—[1893–95].
Samuel Verplanck Hoffman, M. E., Morristown, N. J.
Jacob H. Hollander, Ph. D., Assoc. Prof. of Finance.
Charles William Leverett Johnson, Ph. D., Instructor in Greek, Yale Univ.
George Wesley Johnston, Ph. D., Lecturer in Latin, Univ. of Toronto.
George Charles Keidel, Ph. D., Associate in Romance Languages.—[1893–95].
Edward Bennett Mathews, Ph. D., Assoc. Prof. of Mineralogy.
Edwin Fitch Northrup, Ph. D., Assoc. Prof. of Physics, Univ. of Texas, 1896–97; Baltimore.—[1893–95].
Alfred William Stratton, Ph. D., Principal and Prof. of Sanskrit, Oriental Coll. of Lahore, India.
Frederick Henry Sykes, Ph. D., University Extension Lecturer, and Editor of *The Citizen*, Philadelphia.
George Francis Weida, Ph. D., Prof. of Pure Chemistry, Kansas Agric. Coll.

1894.

Arthur Fisher Bentley, Ph. D., Journalist, Chicago.
Samuel Walker Beyer, Ph. D., Assoc. Prof. of Geology, Iowa Agric. Coll.
Clarence Griffin Child, Ph. D., Asst. Editor, Worcester's Dictionary; Instructor in English, Univ. of Pa.
Frank Hollinger Clutz, Ph. D., Instructor, Midland Coll., Kan.—[1894–96].
Fonger DeHaan, Ph. D., Associate in Spanish, Bryn Mawr. *Did not enter on the fellowship.*
Henry Stewart Gane, Ph. D., U. S. Geological Survey, Washington.

William August Haussmann, Ph. D., Instructor in German, Allegheny High School, Pa.
Reid Hunt, Ph. D., M. D., Associate in Pharmacology.—[1894–96].
Thomas Franklin Kane, Ph. D., Prof. of Latin, Olivet Coll.
William Hamilton Kirk, Ph. D., Instructor in Latin, Vanderbilt Univ.
Henry McElderry Knower, Ph. D., Bruce Fellow, 1895–96; Instructor in Anatomy.
George Lefevre, Ph. D., Bruce Fellow, 1895–97; Prof. of Zoölogy, Univ. of Missouri.
Caspar Levias, A. B., Prof. of Exegesis and Hebrew Grammar, Hebrew Union Coll., Cincinnati. *Reappointed* 1895, *but resigned.*
William Henry Maltbie, Ph. D., Prof. of Mathematics, Woman's Coll., Baltimore.
Thomas Francis Moran, Ph. D., Prof. of History and Economics, Purdue Univ.
Louis Trenchard More, Ph. D., Adjunct Prof. of Physics, Univ. of Neb.
James Flack Norris, Ph. D., Instructor in Chemistry, Mass. Inst. of Tech.
Herbert Dodge Pease, M. B., Bacteriologist, Board of Health, Philadelphia.

1895.

Norman Ross Carmichael, A. M., Assistant in Mathematics, Queen's Univ., Canada.
Arthur Douglas Chambers, Ph. D., Chemist, Ashburn, Mo.
*Franklin Story Conant, Ph. D., Bruce Fellow, 1897.
Rev. Eneas Bernard Goodwin, A. B., Clergyman, Chicago, Ill.
William Jackson Humphreys, Ph. D., Instructor in Physics, Univ. of Va.
Oliver Martin Johnston, Ph. D., Asst. Prof. of Romance Lang., Stanford Univ.
Gordon Jennings Laing, Ph. D., Assistant in Latin, Univ. of Chicago.
*Louis Eugene Livingood, M. D., Assistant in Pathology, 1896–98, and Associate, 1898.
Ebenezer Mackay, Ph. D., Prof. of Chemistry and Mineralogy, Dalhousie Univ.
John McLaren McBryde, Jr., Ph. D., Prof. of English, Hollins Inst., Va.
Henry Ludwell Moore, Ph. D., Prof. of Economics, Smith Coll.
Charles William Peppler, Ph. D., Prof. of Greek, Emory Coll., Ga.
Franklin Lafayette Riley, Ph. D., Prof. of History, Univ. of Miss.
Frederick George Gottlob Schmidt, Ph. D., Prof. of Modern Lang., Univ. of Oregon.
John Adams Scott, Ph. D., Asst. Prof. of Greek, Northwestern Univ.
George Otis Smith, Ph. D., U. S. Geological Survey, Washington.
M. Victor Staley, Ph. D., Prof. in the Univ. of Washington.
Thomas Hardy Taliaferro, Ph. D., Instructor in Mathematics, Pennsylvania State Coll.
Harry Langford Wilson, Ph. D., Instructor in Latin. *Did not enter on the fellowship.*

1896.

Edward Cooke Armstrong, Ph. D., Associate in Romance Lang.
James Morton Callahan, Ph. D., Lecturer in Diplomatic History.
Edward Perkins Carter, M. D., late Resident Physician, Lakeside Hospital, Cleveland.
Hubert Lyman Clark, Ph. D., Prof. of Biology, Olivet Coll.
Noah Ernest Dorsey, Ph. D., Associate in Physics.
Pelham Edgar, Ph. D., Prof. of Modern Lang., Victoria Univ., Ont.
Edwin Luther Green, Ph. D., Prof. of Greek, Central Univ., Ky., 1898–99.
Arthur Sewall Haggett, Ph. D., Instructor in Greek, Worcester Academy, Mass.
William Edwards Henderson, Ph. D., Asst. Prof. of Anal. Chemistry, Ohio State Univ.
Charles Hoeing, Ph. D., Instructor in Latin, Univ. of Rochester.—[1896–98].
Duncan Starr Johnson, Ph. D., Bruce Fellow, 1897–98; Associate in Botany.
Rev. Paul Henry Land, A. B., Clergyman, Lima, O.
Omera Floyd Long, Ph. D., Instructor in Latin, Northwestern Univ.
William Tyler Mather, Ph. D., Assoc. Prof. of Physics, Univ. of Texas.
Jens Anderson Ness, A. B., Associate in Sanskrit, Univ. of Chicago.—[1896–98].
Alexander Pell, Ph. D., Prof. of Mathematics, Univ. of South Dakota.
Cornelius William Prettyman, Ph. D., Instructor in German, Dickinson Coll.
Charles Dabney Ragland, Ph. D., Prof. of Chemistry, Randolph Macon Coll.
Frank Roy Rutter, Ph. D., U. S. Geological Survey, Washington.
George Burbank Shattuck, Ph. D., Associate in Physiographic Geology.

1897.

Cleveland Abbe, Jr., Ph. D., Prof. of Natural Sciences, Winthrop Coll., S. C.
Charles Hillman Brough, Ph. D., Prof. of Economics and History, Mississippi Coll.
Pierce Butler, Ph. D., Asst. Editor, Worcester's Dictionary, Phila. [1897–99].
Killis Campbell, Ph. D., Instructor in English, Univ. of Texas.
Gilman Arthur Drew, Ph. D., Bruce Fellow, 1898; Assistant in Zoölogy.
Charles Wilson Greene, Ph. D., Asst. Prof. of Physiology, Stanford Univ.
Karl Joseph Grimm, Ph. D., William S. Rayner Fellow in Semitic Lang.—[1897–99].
James Graham Hardy, Ph. D., Instructor in Mathematics, Williams Coll.
William App Jones, Ph. D., Analytical Chemist, New York City.
William Kurrelmeyer, Ph. D., Prof. of Modern Lang., Franklin and Marshall Coll.—[1897–99].
Guy Carleton Lee, Ph. D., Instructor in History.
Charles Elwood Mendenhall, Ph. D., Instructor in Physics, Williams Coll.
Samuel Alfred Mitchell, Ph. D., Tutor in Astronomy, Columbia Univ.
Joseph Longworth Nichols, A. B., M. D., Student in Berlin.
William Albert Nitze, Ph. D., Lecturer in Romance Lang., Columbia Univ.
Daniel Allen Penick, Ph. D., Instructor in Greek and Latin, Univ. of Texas.
Ebenezer Emmet Reid, Ph. D., Prof. of Chemistry and Physics, Charleston Coll.
William Berney Saffold, Ph. D., Prof. of Latin, Univ. of Alabama. *Did not enter on the fellowship.*
Henry Nevill Sanders, A. B., Lecturer in Greek, McGill Univ.
Charles William Waidner, Ph. D., Assistant in Physics, Williams Coll.

1898.

Thomas Sewell Adams, Ph. D., Statistician, U. S. Census Bureau.
John William Basore, Ph. D., Prof. of Latin, Hampden Sidney Coll.
Frank Ringgold Blake, A. B., Fellow in Semitic Lang.—[1898–1900].
Joseph Scudder Chamberlain, Ph. D., Instructor in Chemistry, Oberlin Coll.
Percy Millard Dawson, A. B., M. D., Assistant in Physiology.
George Stronach Fraps, Ph. D., Asst. Prof. of Chemistry, N. C. Agric. and Mech. Coll.
Pierre Joseph Frein, Ph. D., Instructor in Romance Lang., Stanford Univ.
Leonidas Chalmers Glenn, Ph. D., Assoc. Prof. of Biology and Geology, South Carolina Coll.
Caswell Grave, Ph. D., Bruce Fellow; Scientific Investigator, U. S. Fish Commission.
Hollister Adelbert Hamilton, Ph. D., Associate in Greek, Bryn Mawr Coll.
George Oscar James, Ph. D., Instructor in Physics, Univ. of Utah, 1896–97; Fellow by Courtesy.
Joseph Francis Merrill, Ph. D., Prof. of Physics, Univ. of Utah.
Alfred William Milden, Ph. D., Fellow by Courtesy.
Eugene Lindsay Opie, A. B., M. D., Assistant in Pathology.
Frederick Albert Saunders, Ph. D., Instructor in Physics, Haverford Coll.
Laurence Frederick Schmeckebier, Ph. D., U. S. Geological Survey, Washington.
Henry Skinner West, Ph. D., Instructor in English.

The list of the present holders of fellowships is given on page 14.
The whole number of Fellows appointed in twenty-four years is 401.

8. Doctors of Philosophy.

(When the institution is not named, this university is to be understood. (F) indicates that the person has held a fellowship here. *—Died.)

1878.

Henry Carter Adams, (F), A. B., Iowa, 1874, Instructor, 1879–81, Lecturer, 1892–94, Lecturer and Assoc. Prof., Cornell, 1879–87.—Prof. of Political Economy, etc., Univ. of Mich.; Statistician, Interstate Commerce Commission.

Thomas Craig, (F), C. E., Lafayette, 1875, U. S. Coast Survey, 1879–81, Instructor, Associate, and Assoc. Prof., 1879–92.—Prof. of Pure Mathematics.

Josiah Royce, (F), A. B., Univ. of Cal., 1875, Asst. Prof., Univ. of Cal., 1878–82.—Prof. of Hist. of Philosophy, Harvard.

Ernest Gottlieb Sihler, (F), Concordia, 1869, Prof., Concordia Coll., Milwaukee, 1891–92.—Prof. of Latin, N. Y. Univ. (4)

1879.

Maurice Bloomfield, (F), A. M., Furman, 1877, LL. D., Princeton, 1896, Associate and Assoc. Prof., 1881–91.—Prof. of Sanskrit and Compar. Philol.

Samuel Fessenden Clark, (F), Ph. B., Yale, 1878, Asst., 1879–81.—Prof. of Natural History, Williams Coll.

George Bruce Halsted, (F), A. B., Princeton, 1875, Tutor and Instructor, Princeton, 1878–84.—Prof. of Mathematics, Univ. of Texas.

Edward Hart, (F), S. B., Lafayette, 1874.—Prof. of Analytical Chemistry, Lafayette.

William White Jacques, (F), S. B., Mass. Inst. of Tech., 1876, and Lecturer in the Inst., 1885–91.—Elec. Engineer, Boston.

Henry Sewall, (F), S. B., Wesleyan, 1876, Hon. M. D., Univ. of Mich., 1888, M. D., Univ. of Colorado, 1889, Associate, 1880–82, Prof., Univ. of Mich., 1882–89.—Prof. of Physiology, Univ. of Denver. (6)

1880.

Francis Greenleaf Allinson, (F), A. B., Haverford, 1876, A. B., Harvard, 1877, Asst. Prof., Haverford, 1880–82, Assoc. Prof., Williams, 1892–95.—Prof. of Classical Philology, Brown Univ.

Fabian Franklin, (F), Ph. B., Columbian, 1869, Assistant, Associate, Assoc. Prof., and Prof. of Mathematics, 1879–95.—Editor of *The Baltimore News*.

Edwin Herbert Hall, (F), A. B., Bowdoin, 1875, Assistant, 1880–81, Instructor and Asst. Prof., Harvard, 1881–95.—Prof. of Physics, Harvard.

Allan Marquand, (F), A. B., Princeton, 1874, L. H. D., Hobart, 1888.—Prof. of Archæology, etc., Princeton.

Washington Irving Stringham, (F), A. B., Harvard, 1877.—Prof. of Mathematics, Univ. of Cal. (5)

1881.

Louis Bevier, (F), A. B., Rutgers, 1878, Instructor and Adjunct Prof., Rutgers, 1881–92.—Prof. of Greek, Rutgers.

Robert Dorsey Coale, (F), Assistant, 1881–83.—Prof. of Chemistry, and Dean (1895–98) of the Medical Faculty, Univ. of Md.

Edward Allen Fay, A. B., Univ. of Mich., 1862—Vice.-Pres. and Prof. of Languages, Gallaudet Coll.

Lawrence Bunting Fletcher, (F), A. B., Columbia, 1877, Instructor in Physics, Wesleyan, 1882–83.—Marlboro, N. Y.

Samuel Garner, A. B., St. John's, 1871, Prof., Univ. of Indiana, 1881–87.—Prof. of Modern Lang., U. S. Naval Acad.

Edward Mussey Hartwell, (F), A. B., Amherst, 1873, and LL.D., 1898, M.D., Miami Med. Coll., 1882, Instructor and Associate, 1883–91, Director of Physical Training, Boston Public Schools, 1891–97.—Sec., Dept. of Municipal Statistics, Boston.

William Thompson Sedgwick, (F), Ph. B., Yale, 1877, Assistant and Associate, 1880–83.—Prof. of Biology, Mass. Inst. of Tech.; Biologist, Mass. Board of Health; Curator, Lowell Inst., Boston.

Christian Sihler, (F), Concordia, 1866, M. D., Univ. of Mich., 1871, Assistant, 1879–80, Instructor and Acting Prof., Western Reserve, 1889–94.—Physician, Cleveland, O.

Edmund Beecher Wilson, (F), Ph. B., Yale, 1878, Assistant, 1881–82, Lecturer, Williams, 1883–84, Assoc. Prof. and Prof., Bryn Mawr, 1885–91.—Prof. of Zoölogy, Columbia. (9)

1882.

James Wilson Bright, (F), A. B., Lafayette, 1877, Assistant, 1882–83, Instructor, Associate, and Assoc. Prof., 1885–93, Instructor, Cornell, 1885.—Prof. of English Philology; Associate Editor of *Modern Language Notes.*

John Franklin Jameson, (F), A. B., Amherst, 1879, and LL. D., 1898, Assistant and Associate, 1882–88, Lecturer, 1890–91. —Prof. of History, Brown Univ.

Mitsuru Kuhara, (F), S. B., Univ. of Tokyo, 1877, Lecturer, Univ. of Tokyo, 1882–87.—Director and Prof. of Chemistry, First Middle School, Tokyo.

Robert Wright Mahon, C. E., Lehigh, 1876, Tutor, Lafayette, 1882–83, Acting Prof., Rose Polytech. Inst., 1888–89.—Chemist, McKeesport, Pa.

*Oscar Howard Mitchell, (F), A. B., Marietta, 1875, Prof. of Mathematics, Marietta Coll., 1882–89. **March* 29, 1889.

George Frederick Nicolassen, (F), A. B., Univ. of Virginia, 1879, Assistant, 1881–82.—Prof. of Greek and German, Southwestern Presbyterian Univ., Tenn.

William Albert Noyes, A. B., Iowa, 1879, Instructor, Univ. of Minn., 1882–83, Prof., Univ. of Tenn., 1883–86.—Prof. of Chemistry, Rose Polytechnic Inst.

Chase Palmer, (F), A. B., 1879, Assistant, Mass. Inst. of Tech., 1882–83, Prof., Mass. Normal School, Salem, 1883–87, Assistant, Tufts Coll., 1887–88, Prof., Wabash Coll., 1888–90.—Prof. of Chemistry, Manual Training High School, Louisville, Ky.

Edward Henry Spieker, (F), A. B., 1879, Instructor and Associate, 1882–88.—Assoc. Prof. of Greek and Latin. (9)

1883.

William John Alexander, (F), A. B., London, 1876, Prof., Dalhousie, 1883–89.—Prof. of English, Toronto.

William Cathcart Day, (F), A. B., 1880, Prof., St. John's Coll., 1883–84, and Univ. of Nashville, 1884–87.—Prof. of Chemistry, Swarthmore Coll.

William Pitt Durfee, (F), A. B., Univ. of Mich., 1876.—Prof. of Mathematics and Dean of the Faculty, Hobart Coll.

Kakichi Mitsukuri, (F), Ph. B., Yale, 1879. —Prof. of Zoölogy, Univ. of Tokyo.

George Stetson Ely, (F), A. B., Amherst, 1878, Prof. of Mathematics, Buchtel, 1883–84.—Examiner, U. S. Patent Office.

Bernard Francis O'Connor, (F), B. ès Lett., Univ. of France, 1874, Instructor and Adjunct Prof. of Romance Lang., Columbia, 1883–91.—New York City. (6)

1884.

Herbert William Conn, A. B., Boston Univ. 1881, Assistant, 1883–84.—Prof. of Biology, Wesleyan Univ., Conn.

Ellery William Davis, (F), S. B., Univ. of Wis., 1879, Prof., Florida Agric., 1884–88, and Univ. of S. C., 1888–93.—Prof. of Mathematics, Univ. of Neb.

David Talbot Day, (F), A. B., 1881.—U. S. Geol. Survey, Washington.

John Dewey, (F), A. B., Univ. of Vt., 1879, Instructor and Prof., Univ. of Mich., 1884–94.—Prof. of Philosophy, Univ. of Chicago.

*James Reynolds Duggan, (F), A. B., Mercer, 1877, M. D., Jefferson Med. Coll., 1879, Prof. of Chemistry, Wake Forest, 1886–88. **January* 10, 1888.

William Henry Howell, (F), A. B., 1881, M. D., Univ. of Mich., 1890, Assistant, Associate, and Assoc. Prof., 1884–89, Lecturer and Prof., Univ. of Mich., 1889–92, Assoc. Prof., Harvard, 1892–93.—Prof. of Physiology; Associate Editor of the *Journal of Experimental Medicine;* Dean of the Medical Faculty.

Hans Carl Günther von Jagemann, (F), Naumburg Gymnas., 1876, Prof., Earlham, 1884–85, and Indiana Univ., 1885–89. —Prof. of Germanic Philology, Harvard.

Edward Harrison Keiser, (F), S. B., Swarthmore, 1880, Assistant, 1884–85, Assoc. Prof. and Prof., Bryn Mawr, 1885–99. —Prof. of Chemistry, Washington Univ.

Arthur Lalanne Kimball, (F), A. B., Princeton, 1881, Associate and Assoc. Prof., 1884–91.—Prof. of Physics, Amherst.

Henry Leslie Osborn, (F), A. B., Wesleyan, 1878, Prof., Purdue Univ., 1884–87.—Prof. of Biology and Geology, Hamline Univ.

Charles Albert Perkins, (F), A. B., Williams, 1879, Assistant, 1884–87, Associate, Bryn Mawr, 1887–91, Prof., Hampden Sidney, 1891–92.—Prof. of Physics, Univ. of Tenn.

Albert Shaw, A. B., Iowa, 1879, Reader, 1889–90, Lecturer, 1891–92.—Editor, *The Review of Reviews,* New York.

Henry Newlin Stokes, (F), S. B., Haverford, 1879, Asst. Prof. of Chemistry, Univ. of Chicago, 1893–94.—U. S. Geological Survey, Washington, D. C.

Louis Webb Wilhelm, (F), A. B., 1880.—Mathematical Instructor, Baltimore.

Arthur Yager, A. B., Georgetown, Ky., 1879.—Prof. of History, Georgetown. (15)

1885.

Edward Webster Bemis, A. B., Amherst, 1880, Instructor, Amherst, 1885-86, Adjunct Prof., Vanderbilt, 1886-92, Assoc., Prof., Univ. of Chicago, 1892-95.—Associate Editor, *Bibliotheca Sacra*, Oberlin, O.

Gustav Bissing, (F), A. B., 1882, Examiner, U. S. Patent Office, 1884-97.—Patent Attorney, Washington.

Henry Herbert Donaldson, (F), A. B., Yale, 1879, Assistant, 1883-84, Instructor and Associate, 1885-89, Asst. Prof., Clark Univ., 1889-92.—Prof. of Neurology, Univ. of Chicago.

Louis Duncan, U. S. Naval Academy, 1880, Associate and Assoc. Prof. of Electricity, 1886-99.—Consulting Engineer, N. Y.

Homer Winthrop Hillyer, (F), S. B., Univ. of Wis., 1882, Instructor, Univ. of Wis., 1885-90.—Asst. Prof. of Organic Chemistry, Univ. of Wisconsin.

Frederic Schiller Lee, (F), A. B., St. Lawrence Univ., 1878, Instructor, St. Lawrence, 1886-87, Associate, Bryn Mawr, 1887-91.—Adjunct Prof. and Demonstrator of Physiology, Columbia.

*Gustav Adolph Liebig, Jr., (F), A. B., 1882, Assistant, 1887-90. **February* 10, 1897.

James Playfair McMurrich, A. B., Toronto, 1879, Instructor, 1884-86, Prof., Haverford, 1886-89, Instructor, Clark, 1889-91, Prof., Univ. of Cincinnati, 1891-94.—Prof. of Anatomy, Univ. of Mich.

Albert Gallatin Palmer, (F), A. B., 1882, Assistant and Asst. Prof., Swarthmore, 1885-87.—Norwood, Md.

Harry Fielding Reid, (F), A. B., 1880, Assistant, 1882-84, Lecturer, 1894-96, Prof., Case School, 1886-94, Assoc. Prof., Univ. of Chicago, 1895-97.—Assoc. Prof. of Geological Physics.

Henry Alford Short, A. B., Columbia, 1880, Tutor, Columbia, 1885-88.—New York.

Morrison Isaac Swift, (F), A. B., Williams, 1879, Instructor in Philosophy, Hobart, Coll., 1882-84.

Henry Alfred Todd, A. B., Princeton, 1876, Instructor and Associate, 1883-91, Prof., Stanford Univ., 1891-93.—Prof. of Romance Philol., Columbia. (13)

1886.

William Shirley Bayley, (F), A. B., 1883.—U. S. Geological Survey; Prof. of Geology and Mineralogy, Colby Univ.

*Adam Todd Bruce, (F), A. B., Princeton, 1881, Instructor in Osteology, etc., 1886-87. **February* 9, 1887.

Davis Rich Dewey, (F), A. B., Univ. of Vt., 1879, Lecturer, 1895-96.—Prof. of Economics, etc., Mass. Inst. of Tech.

William Henry Emerson, (F), U. S. Naval Acad., 1880, Prof., S. C. Military Acad., 1886-88.—Prof. of Chemistry, Ga. School of Technology, Atlanta.

Joseph Auguste Fontaine, College of Sion, France, 1879, Instructor, Univ. of Neb., 1887-89, Prof., Univ. of Miss., 1889-91.—Prof. of Romance Lang., Bryn Mawr.

Elgin Ralston Lovell Gould, (F), A. B., Victoria (Ont.), 1881, Instructor, Washington High School, 1884-87, Reader, 1887-89, Lecturer, 1892-97, Prof., Univ. of Chicago, 1895-96.—President, City and Suburban Homes Co., N. Y.

William Penn Holcomb, B. L., Swarthmore, 1878, Prof. of History, etc., Swarthmore, 1886-94.—Pearl River, N. Y.

Joseph Jastrow, (F), A. B., Univ. of Pa., 1882.—Prof. of Experimental Psychology, Univ. of Wisconsin.

George Theophilus Kemp, (F), A. B., 1883, M. D., Long Island Med. Coll., 1891, Demonstrator, Univ. of Pa., 1886-87, Associate and Assoc. Director, etc., Hoagland Lab., 1888-93.—Prof. of Physiology, Univ. of Illinois.

Charles Herbert Levermore, (F), A. B., Yale, 1879, Instructor, Univ. of Cal., 1886-88, Prof. of History, Mass. Inst. of Tech., 1888-93.—President, Adelphi Coll., Brooklyn.

Gonzalez Lodge, (F), A. B., 1883, Prof., Davidson Coll., 1886-88.—Prof. of Latin, Bryn Mawr.

Charles William Emil Miller, (F), A. B., 1882, Peoria (Ill.) High School, 1888-90, and Walther Coll., St. Louis, 1890-91.—Assoc. Prof. of Greek.

Henry Barber Nixon, (F), Univ. of N. C., 1878.—Prof. of Mathematics, Pennsylvania Coll.

Charles Skeele Palmer, (F), A. B., Amherst, 1879.—Prof. of Chemistry, Univ. of Colorado.

Burr James Ramage, A. B., Newberry, 1880.—Prof. of Common Law and Dean of the Law School, Univ. of the South.

Shosuke Sato, S. B., Sapporo Agric. Coll., 1880.—Acting Director and Prof. of Agricultural Economics, Imperial Coll. of Agriculture, Sapporo, Japan.

Woodrow Wilson, (F), A. B., Princeton, 1876, LL. D., Wake Forest, 1887, Associate and Assoc. Prof., Bryn Mawr, 1885–88, Prof., Wesleyan Univ., 1888–90, Lecturer, 1887–98. — Lecturer, New York Law School; Prof. of Jurisprudence and Politics, Princeton. (17)

1887.

Cyrus Adler, (F), A. B., Univ. of Pa., 1883, Instructor, 1887–90, Associate, 1890–93.—Librarian of the Smithsonian Inst.; Prof. of Oriental History and Archæology, Columbian Univ.

Ethan Allen Andrews, (F), Ph. B., Yale, 1881, Instructor and Associate, 1887–92.—Assoc. Prof. of Biology.

Rev. Albert Clayton Applegarth, A. B., 1884.—Clergyman, Chester, Pa.

*David Barcroft, (F), Ph. B., Univ. of Cal., 1882. **August* 2, 1894.

Henry Gustav Beyer, M. D., Bellevue Hospital Med. Coll., 1876, M. R. C. S. (London), Director of Physical Training, U. S. Naval Acad., 1891–95.—Surgeon U.S.N.

Richard Newman Brackett, A. B., Davidson, 1883. — Asst. Prof. of Chemistry, Clemson Agric. Coll., S. C.

Henry Crew, (F), A. B., Princeton, 1882, Asst., 1887–88, Instructor, Haverford, 1888–91.—Prof. of Physics, Northwestern Univ.

Albert E. Egge, (F), A. B., Luther Coll., 1879, Prof., St. Olaf Coll., 1887–92, Instructor, Iowa Univ., 1892–96.—Prof. of English, Washington Agric. Coll.

John Charles Fields, (F), A. B., Toronto, 1884, late Prof. of Mathematics, Allegheny; Student, Berlin.

Andrew Fossum, A. B., Luther, 1882.—Prof. of Greek, St. Olaf Coll.

Richmond Harding, A. B., Davidson, 1880. —Prof. of Greek, Davidson Coll.

Charles Willard Hayes, (F), A. B., Oberlin, 1883.—U. S. Geol. Survey, Washington.

William Adam Hedrick, A. M., Columbian, 1884. — Instructor in the High School, Washington, D. C.

Frank Gaylord Hubbard, A. B., Williams, 1880, Instructor, Smith Coll., 1887–88, and Univ. of Cal., 1888–92.—Prof. of English, Univ. of Wis.

George Benjamin Hussey, (F), A. B., Columbia, 1884, Fellow, Princeton, 1888–90, Instructor and Assoc. Prof., Univ. of Neb, 1891–95.—Docent, Univ. of Chicago.

James Hervey Hyslop, (F), A. B., Wooster, 1877, Instructor, Bucknell, 1888–89.—Prof. of Logic and Ethics, Columbia.

Marion Dexter Learned, (F), A. B., Dickinson, 1880, Instructor, Associate, and Assoc. Prof., 1886–95.—Prof. of German, Univ. of Pa.

William Ridgely Orndorff, (F), A. B., 1884. —Asst. Prof. of Organic Chemistry, Cornell Univ.

Daniel Richard Randall, (F), A. B., St. John's, 1883.—Atty. at Law, Annapolis.

Frederick Morris Warren, A. B., Amherst, 1880, Instructor and Associate, 1886–91.—Prof. of Romance Lang., Adelbert; Lecturer in French Literature. (20)

1888.

William Muss Arnolt, (F), B. D., New Brunswick Theol. Sem., 1882, Instructor, 1891–93, Asst. Prof., Univ. of Mich., 1893–94.—Instructor and Asst. Recorder, Univ. of Chicago.

Philip Wheelock Ayres, (F), Ph. B., Cornell, 1884.—Asst. Secretary, Charity Organization Society, New York.

Louis Bell, (F), A. B., Dartmouth, 1884, Prof. of Physics, etc., Purdue Univ., 1888–89.—Chief Engineer, General Electric Company, Chicago, Ill.

Benjamin Lester Bowen, A. B., Rochester, 1881, Prof., Bowdoin, 1888–89.—Prof. of Romance Lang., Ohio State Univ.

William Henry Burnham, (F), A. B., Harvard, 1882, Instructor, 1888–89.—Instructor in Pedagogy, Clark Univ.

Richard Eugene Burton, A. B., Trinity (Conn.), 1883, Lecturer, 1897–98.—Prof. of English, Univ. of Minn.

John Pendleton Campbell, (F), A. B., 1885. —Prof. of Biology, Univ. of Ga.

Herbert Charles Elmer, (F), A. B., Cornell, 1883.—Asst. Prof. of Latin, Cornell.

Robert Orlando Graham, A. B., Amherst, 1877.—Prof. of Chemistry and Geology, Illinois Wesleyan.

Erasmus Haworth, S. B., Kansas State Univ., 1881, Prof., Oskaloosa Coll., 1882–92.—Prof. of Physical Geology, etc., Kansas State Univ.

Francis Hobart Herrick, A. B., Dartmouth, 1881.—Prof. of Biology, Adelbert.

William Herbert Hobbs, (F), S. B., Worcester Polytechnic, 1883.—Asst. Prof. of Mineralogy, etc., Univ. of Wis.

Joseph Hoeing Kastle, (F), S. B., Ky. State Coll., 1884.—Prof. of Chemistry, Ky. State Coll.

Andrew Cowper Lawson, (F), A. B., Toronto, 1883.—Prof. of Geology, Univ. of Cal.

Felix Lengfeld, (F), Prof., S. Dakota School of Mines, 1890-91, Instructor, Univ. of Cal., 1891-92.—Asst. Prof. of Inorganic Chemistry, Univ. of Chicago.

Archibald Byron Macallum, A. B., Toronto, 1886.—Assoc. Prof. of Physiology, Univ. of Toronto.

John Ernst Matzke, A. B., Hope Coll, 1882, Prof. Bowdoin Coll., 1889-90, and Indiana Univ., 1890-91, Associate, 1891-93.—Prof. of Romanic Lang., Stanford Univ.

*Thomas McCabe, (F), A. B., 1886, Instructor, Univ. of Mich., 1888-89, Prof., Indiana Univ., 1889-90, Associate in Romance Lang., Bryn Mawr, 1890-91. **February* 22, 1891.

Yujiro Motora, (F), Doshisha Kioto, Japan, 1879.—Prof. of Psychology, Univ. of Tokyo.

Julius Nelson, (F), S. B., Univ. of Wisconsin, 1881.—Prof. of Biology, Rutgers.

George Thomas White Patrick, (F), A. B., Iowa Univ., 1878, B. D., Yale, 1885.—Prof. of Philosophy, Iowa State Univ.

Edmund Clark Sanford, (F), A. B., Univ. of Cal., 1883, Instructor, 1888-89.—Asst. Prof. of Psychology, Clark Univ.

Henry Taber, Ph. B., Yale, 1882, Assistant, 1888-89.—Asst. Prof. of Mathematics, Clark Univ.

Amos Griswold Warner, (F), B. L., Univ., of Neb., 1885, General Sec., Charity Organization Soc., Balt., 1887-89, Prof., Univ. of Neb., 1889-91, Supt. of Charities in the District of Columbia, 1891-93, Lecturer, 1892-93.—Prof. of Economics, Stanford Univ.

John Roaf Wightman, (F), A. B., Toronto, 1871, Prof., Iowa Coll., 1889-91, Assoc. Prof., Univ. of Neb., 1891-93.—Prof. of Romance Lang., Oberlin.

Henry Van Peters Wilson, (F), A. B., 1883, Bruce Fellow, 1888-89.—Prof. of Biology, Univ. of N. C.

Thomas Kimber Worthington, A. B., Haverford, 1883, LL. B., Univ. of Md., 1900.—Baltimore. (27)

1889.

Charles McLean Andrews, (F), A. B., Trinity (Conn.), 1884.—Assoc. Prof. of History, Bryn Mawr.

Frank Wilson Blackmar, (F), Ph. B., Univ. of the Pacific, 1881.—Prof. of History, etc., Univ. of Kansas.

Jeffrey Richardson Brackett, A. B., Harvard, 1883.—Lecturer on Public Aid, etc.

William Merriam Burton, (F), A. B., Adelbert, 1886.—Supt., Standard Oil Company, Whiting, Ind.

Morgan Callaway, Jr., (F), A. B., Emory (Ga.), 1881, Prof., Southwestern Univ., 1889-90.—Prof. of English Philology, Univ. of Texas.

Alfred Robert Louis Dohme, A. B., 1886.—Manufacturing Chemist, Balt.

*William Curns Lawrence Gorton, (F), A. B., 1886, Assoc. Prof. and Prof. of Mathematics, Woman's Coll., Balt., 1888-94. **November* 8, 1894.

Joseph Edward Harry, (F), A. B., 1886.—Prof. of Greek and German, Georgetown Coll., Ky.

*George Allison Hench, (F), A. B., Lafayette, 1885, Instructor, Asst. Prof., and Prof. of German, Univ. of Mich., 1890-99. **August* 16, 1899.

Clifton Fremont Hodge, (F), A. B., Ripon, 1882, Instructor, Univ. of Wis., 1891-92.—Asst. Prof. of Physiology, Clark Univ.

Cary Talcott Hutchinson, (F), Ph. B., Washington Univ., 1886, Acting Assoc. Prof. of Electricity, 1898-99.—Consulting Engineer, N. Y.

James Thomas Lees, A. B., Adelbert, 1886.—Prof. of Greek, Univ. of Neb.

Archibald MacMechan, (F), A. B., Toronto, 1884.—Prof. of English, Dalhousie.

Charles William Moulton, A. B., Univ. of Minn., 1885.—Prof. of Chemistry, Vassar.

Albion Woodbury Small, A. B., Colby, 1876, Reader, 1888-89, Pres., Colby Univ., 1889-92.—Prof. of Sociology, Univ. of Chicago.

Charles Lee Smith, (F), S. B., Wake Forest, 1884, Instructor, 1889-91, General Sec., Charity Organization Soc., Balt., 1889-91.—Prof. of History, William Jewell Coll.

Kirby Flower Smith, A. B., Univ. of Vt., 1884, Instructor and Associate, 1889-93.—Assoc. Prof. of Latin.

Rev. Lemon Leander Uhl, A. B., Wittenberg (Ohio), 1871.—Missionary in India.

Arthur Clarence Wightman, (F), A. B., Wofford, 1879, Demonstrator, 1889-90, Prof. in Md. Agric. Coll., 1890-91.—Adjunct Prof. of Biology and Physics, Randolph-Macon Coll.

*William Klapp Williams, A. B., 1886.—**June* 4, 1897. (20)

1890.

Joseph Sweetman Ames, (F), A. B., 1886, Assistant, Associate, and Assoc. Prof., 1889-98.—Prof. of Physics.

Edward Carey Applegarth, (F), A. B., 1887, M. D., Coll. of Phys. and Surg., Balt., 1892.—Physician, Balt.

Charles Cotton Blackshear, A. B., Mercer, 1881, Instructor, Bryn Mawr, 1890-91.—Prof. of Chemistry, Woman's Coll., Balt.

Charles Hiram Chapman, (F), A. B., 1888, Instructor and Associate, 1889-92, President, Univ. of Oregon, 1893-99.

Rudolf John Julius de Roode, Jr., (F), S. B., Ky. State Coll., 1885.—Analytical Chemist, New York.

George Peter Dreyer, (F), A. B., 1887, Demonstrator, 1890-92.—Associate in Biology.

Edwin Whitfield Fay, (F), A. M., Southwestern Presbyterian Univ., 1883, Instructor, Univ. of Mich., 1890-91, Acting Prof., Univ. of Texas, 1892-93, Prof., Washington and Lee, 1893-99.—Prof. of Latin, Univ. of Texas.

Henry Torsey Fernald, S. B., Maine State Coll., 1885.—Prof. of Zoölogy, Pa. State Coll.

Henry Brayton Gardner, (F), A. B., Brown, 1884.—Assoc. Prof. of Political Economy, Brown Univ.

Charles Jaques Goodwin, (F), A. B., Bowdoin, 1887, Prof., Cornell Coll., 1890-92, Tutor, Wesleyan Univ., 1892-95, Acting Prof., St. Stephen's Coll., N. Y., 1898-99.—Prof. of Greek, Lehigh Univ.

Charles Homer Haskins, A. B., 1887, Instructor, 1889-90.—Prof. of Institutional History, Univ. of Wisconsin; Lecturer in History, Harvard, 1899-1900.

James Taft Hatfield, (F), A. B., Northwestern, 1883.—Prof. of German, Northwestern Univ.

John Cohn Hemmeter, M. D., Univ. of Md., 1883.—Clinical Prof. of Medicine, Univ. of Md.; Physician, Balt.

Charles Holmes Herty, Ph. B., Univ. of Ga., 1886.—Adjunct Prof. of Chemistry, Univ. of Ga.

Jesse Herman Holmes, A. B., Univ. of Neb., 1884, Prof. of Biblical Lit., Swarthmore Coll.

Rev. Abel Henry Huizinga, (F), A. B., Hope Coll., 1880, Adjunct Prof., McCormick Theol. Sem., 1894-96.—Clergyman, Fishkill, N. Y.

Toyokichi Iyenaga, Ph. B., Oberlin, 1887.—Prof. of Political Science, Semmo Gakko, Tokyo.

Thomas Logie, (F), A. B., Toronto, 1887, Asst. Prof., Williams Coll., 1890-93, Assoc. Prof. of Romance Lang., Rutgers, 1893-98.

Hiram Benjamin Loomis, (F), A. B., Trinity (Conn.), 1885, Instructor, Univ. of Wis., 1890-93.—Asst. Prof. of Physics, Northwestern Univ.

Herbert William Magoun, (F), A. B., Iowa, 1879, Acting Prof., Colo. Coll., 1890-91, and Oberlin, 1892-95.—Prof. of Latin, Redfield Coll., S. Dak.

John Hanson Thomas McPherson, (F), A. B., 1886, Instructor, Univ. of Mich., 1890-91.—Prof. of History, Univ. of Ga.

Wilmot Vernon Metcalf, A. B., Oberlin, 1883.—Prof. of Chemistry and Physics, Carleton Coll.

Thomas Hunt Morgan, (F), S. B., Ky. State Coll., 1886, Bruce Fellow, 1890-91.—Prof. of Biology, Bryn Mawr.

Augustus Taber Murray, (F), A. B., Haverford, 1885, Prof. Earlham Coll., 1888-91, and Colorado Coll., 1891-92.—Prof. of Greek, Stanford Univ.

Wyatt William Randall, A. B., St. John's, 1884, Assistant, 1890-93, Associate, 1893-98.—Science Master, Lawrenceville School.

George Mann Richardson, (F), A. C., Lehigh, 1886, Instructor, Lehigh, 1890-91.—Prof. of Organic Chemistry, Stanford.

Joseph Samuel Shefloe, (F), A. B., Luther, 1885.—Prof. of Romance Lang. and Librarian, Woman's Coll., Balt.

Robert Benson Steele, (F), A. B., Univ. of Wis., 1883, Prof., St. Olaf Coll., 1890-91.—Prof. of Latin, Illinois Wesleyan.

Andrew Stephenson, A. B., De Pauw, 1882, Assoc. Prof., Wesleyan, 1890-94.—Prof. of History, De Pauw Univ.

Frederick Jackson Turner, A. B., Univ. of Wis., 1884.—Prof. of American History, Univ. of Wis.

John Martin Vincent, A. B., Oberlin, 1883, Instructor and Associate, 1890-95.—Assoc. Prof. of History.

Shozaburo Watase, (F), S. B., Sapporo Agric. Coll., 1884, Bruce Fellow, 1889-90.—Lecturer and Assistant, Clark Univ., 1890-92, Asst. Prof., Univ. of Chicago, 1892-99.—Prof. of Cellular Biology, Univ. of Tokyo.

James Albert Woodburn, (F), A. B., Indiana Univ., 1876.—Prof. of American History, Indiana Univ. (33)

1891.

Alfred Bagby, Jr., A. B., Richmond, 1885, Adjunct Prof. of Greek, S. C. Univ., 1891-93.—Atty. at Law, Balt.

James William Black, A. B., 1888, Acting Prof., Georgetown Coll., Ky., 1891-92, Assoc. Prof., Oberlin, 1892-94.—Prof. of History, etc., Colby Univ.

Charles Pliny Brigham, A. B., 1888.—Greenport, Long Island.

Charles Edward Coates, Jr., A. B., 1887, Prof., St. John's, Md., 1891-93.—Prof. of Chemistry, La. State Univ.

Edwin Grant Conklin, (F), S. B., Ohio Wesleyan, 1885, Prof., Ohio Wesleyan, 1891-94, and Northwestern Univ., 1894-95.—Prof. of Compar. Embryology, Univ. of Pa.

Paul Joseph Dashiell, A. B., 1887, Instructor, Lehigh, 1889-80, 1891-92.—Prof. of Chemistry, U. S. Naval Academy.

Hermann Louis Ebeling, (F), A. B., 1882, Prof. of Greek, Miami Univ., 1891-99.—Trenton, N. J.

William Snyder Eichelberger, (F), A. B., 1886, Instructor in Mathematics, etc., Wesleyan Univ., 1891-96.—Prof. of Mathematics, U. S. Navy, Washington.

Thomas Perrin Harrison, (F), S. C. Military Acad., 1886, Assoc. Prof., Clemson Agric. Coll., 1891-95.—Prof. of English, Davidson Coll.

Walter Jones, A. B., 1888, Acting Prof., Wittenberg Coll., 1891-92, Instructor and Prof., Purdue Univ., 1892-95.—Associate in Physiological Chemistry.

Henry Parker Manning, (F), A. B., Brown, 1883.—Asst. Prof. of Pure Mathematics, Brown Univ.

George Frederick Metzler, A. B., Albert Coll., 1880, Instructor, Univ. of Mich., 1892-93, and Queen's Univ., Ont., 1895-96.

William McCracken Milroy, A. B., Geneva Coll., 1887.—Prof. of Latin, Geneva Coll.

John Leverett Moore, (F), A. B., Princeton, 1881, Tutor, Princeton, 1882-85, Instructor, 1888-89.—Prof. of Latin, Vassar.

Wilfred Pirt Mustard, (F), A. B., Toronto, 1886, Prof., Colorado Coll., 1891-93.—Prof. of Latin, Haverford Coll.

Barker Newhall, (F), A. B., Haverford, 1887, Instructor, Brown Univ., 1892-95, and Bates Coll. (Me.), 1895-96.—Prof. of Greek, Kenyon Coll.

George Petrie, A. M., Univ. of Virginia, 1887.—Prof. of History, Alabama Polytechnic Inst.

Edward Bennett Rosa, (F), S. B., Wesleyan, Conn., 1886.—Prof. of Physics, Wesleyan.

Edward Alsworth Ross, A. B., Coe Coll., 1886, Prof., Indiana Univ., 1891-92, Assoc Prof. Cornell, 1892-93.—Prof. of Economic Theory and Finance, Stanford.

Charles Edward Saunders, (F), A. B., Toronto, 1888, Prof., Central Univ., Ky., 1891-93.—Ottawa, Canada.

Sidney Sherwood, A. B., Princeton, 1879, Instructor, Univ. of Pa., 1891-92, Assoc., 1892-95.—Assoc. Prof. of Political Economy.

Moses Stephen Slaughter, (F), A. B., Indiana Asbury, 1883, Instructor, Bryn Mawr, 1887-88, Prof., Iowa Coll., 1889-96.—Prof. of Latin, Univ. of Wis.

Bernard Christian Steiner, (F), A. B., Yale, 1888, LL. B., Univ. of Md., 1894, Instructor, Williams, 1891-92.—Librarian, Pratt Library, Balt.; Prof. and Dean, Balt. Univ. School of Law; Associate in History.

William Howe Tolman, A. B., Brown, 1882, General Agent, Poor Assoc., N. Y., 1894-98.—Sec., League for Social Service, N. Y.

Stephen Beauregard Weeks, A. B., Univ. of N. C., 1886, Prof., Trinity Coll., N. C., 1891-93.—Editor, U. S. Bureau of Education.

John White, Jr., (F), A. B., 1888, Assistant, Cornell, 1891-98.—Adjunct Prof. of Chemistry, Univ. of Neb.

Westel Woodbury Willoughby, (F), A. B., 1888, Acting Asst. Prof., Stanford, 1894-95, Reader and Assoc., 1894-99.—Assoc. Prof. of Political Science.

Arthur Burnham Woodford, Ph. B., Yale, 1881, Instructor, Univ. of Pa., 1891-92, late Prof., Coll. of Social Economics, New York, and Lecturer, New York Univ.—Instructor, High School, New Haven.

(28)

1893.

Eugene Thomas Allen, A. B., Amherst, 1887, Acting Prof., Univ. of Colo., 1892-93, Assistant, Harvard, 1894-95.—Instructor in Chemistry, Mo. School of Mines.

William Wilson Baden, (F), A. B., 1881, LL. B., Univ. of Md., 1883, Prof., Southwestern Univ., 1892-93, and Central Univ., 1893-96.—Prof. of Latin, Univ. of Idaho.

Robert Payne Bigelow, (F), S. B., Harvard, 1887, Bruce Fellow, 1891-93.—Instructor in Biology and Librarian, Mass. Inst. of Tech.; Editor in Chief, *American Naturalist.*

Edwin Winfield Bowen, A. B., Randolph Macon, 1887, Asst. Prof., Univ. of Mo., 1892-93.—Prof. of Latin, Randolph Macon Coll.

Immanuel Moses Casanowicz.—Aid, Division of Historic Archæology, U. S. National Museum, Washington.

Starr Willard Cutting, A. B., Williams, 1887.—Assoc. Prof. of German, Univ. of Chicago.

Rev. William Levering Devries, (F), A. B., 1888, S. T. B., General Theol. Sem., N.Y., 1894.—Clergyman, Washington, D. C.

Albert Bernhardt Faust, (F), A. B., 1889, Instructor, 1894-96.—Assoc. Prof. of German, Wesleyan Univ.

George Wilton Field, A. B., Brown, 1887, Assoc. Prof., Brown Univ., 1893-96.—Prof. of Zoölogy, R. I. Agric. Coll.

Joseph Elliott Gilpin, A. B., 1889.—Assoc. in Chemistry.

John Leslie Hall, (F).—Prof. of English and History, William and Mary Coll.

William Asbury Harris, (F), A. M., Richmond, 1886, Acting Prof., Ripon, 1892-93.—Prof. of Greek, Baylor Univ.

Frederick Clemson Howe, A. B., Allegheny, 1889.—Atty. at Law, Cleveland; Lecturer, Western Reserve Univ.

William Isaac Hull, A. B., 1889.—Prof. of History, etc., Swarthmore Coll.

Harry Clary Jones, (F), A. B., 1889.—Assoc. in Physical Chemistry.

James Lawrence Kellogg, (F), S. B., Olivet, 1888, Prof., Olivet Coll., 1892-99.—Asst. Prof. of Biol., Williams Coll.

Charles Rollin Keyes, (F), S. B., Iowa State Univ., 1887, late State Geologist of Missouri.—Mining Expert, Des Moines.

Elmer Peter Kohler, (F), A. B., Muhlenberg, 1886.—Assoc. Prof. of Chemistry, Bryn Mawr.

*Paul Erasmus Lauer, (F), A. B., Adelbert, 1885, Asst. Supt. of Schools, Cleveland, 1892-93. **February* 20, 1893.

Edwin Seelye Lewis, (F), A. B., Wabash, 1888.—Prof. of Romance Lang., Princeton.

David Judson Lingle, (F), S. B., Chicago, 1885.—Instructor in Physiology, Univ. of Chicago.

Alvin Frank Linn, (F), A. B., Wittenberg, 1884.—Prof. of Chemistry and Mineralogy, Wittenberg Coll.

James Alexander Lyman, A. B., Beloit, 1888, Docent, Univ. of Chicago, 1892-93.—Instructor in Chemistry, Portland Academy, Oregon.

John Hanson Thomas Main, (F), A. B., Moore's Hill, 1886.—Prof. of Greek, Iowa Coll.

Frank Jewett Mather, Jr., (F), A. B., Williams, 1889.—Instructor in English, Williams Coll.

Michael Andrew Mikkelsen, (F), A. B., Luther, 1886.—Montclair, N. J.

Robert Milton Parks, Jr., A. B., Indiana Univ., 1879, Prof., Furman Univ., 1892-93.—Prof. of Chemistry, Central Univ., Ky.

Charles Lane Poor, (F), S. B., Coll. of the City of New York, 1886, Instructor, Associate, and Assoc. Prof. of Astronomy, 1891-99.—New York.

John Dyneley Prince, (F), A. B., Columbia, 1888.—Prof. of Semitic Lang., New York Univ.

John Cunningham Robertson, (F), A. M., Univ. of Va., 1885.—Prof. of Greek, St. Stephen's Coll., N. Y.

Charles Hunter Ross, (F), S. B., Ala. Agric., 1886.—Prof. of Modern Lang., Ala. Polytechnic Inst.

Harry Luman Russell, S. B., Univ. of Wis., 1888.—Prof. of Bacteriology, Univ. of Wis.

William Amasa Scott, A. B., Univ. of Rochester, 1886.—Prof. of Economic History and Theory, Univ. of Wis.

Will Bush Shober, A. B., St. John's, 1885.—Instructor in Chemistry, Lehigh Univ.

Martin Bell Stubbs, A. B., Haverford, 1888.—Instructor in Chemistry, Haverford.

Harry Maas Ullmann, A. B., 1889, Honorary Fellow, Univ. of Chicago, 1892-93.—Instructor in Chemistry, Lehigh.

Bert John Vos, (F), A. B., Univ. of Mich., 1888, Instructor, Univ. of Chicago, 1892-98.—Assoc. Prof. of German. (37)

1893.

Henry Harold Ballard, A. B., 1888, Instructor in Chemistry, Rose Polytech. Inst., 1893-96.—Science Master, Country School for Boys, Balt.

Florence Bascom, S. B., Univ. of Wis., 1884, Instructor, Ohio State Univ., 1893-95.—Associate in Geology, Bryn Mawr.

Jasper Luther Beeson, A. B., Univ. of Ala., 1889.—Prof. of Chemistry and Physics, Ga. Normal and Industrial Coll.

Alexander Mitchell Carroll, (F), A. M., Richmond, 1888, Prof., Richmond Coll., 1895-97, Reader, 1898-99.—Acting Prof. of Latin, Columbian Univ.

Andrew Fuller Craven, LL. B., Univ. of Chicago, 1870, A. B., Harvard, 1889.—Prof. of Economics, Columbian Univ.

John Bascom Crenshaw, A. M., Randolph-Macon, 1881, Instructor in Physical Culture, 1893–99.—Fellow by Courtesy.

Ulysses Sherman Grant, (F), S. B., Univ. of Minn., 1888.—Prof. of Geology, Northwestern Univ.

David I. Green, A. B., Alfred Univ., 1885.—Supt., Organized Charities, Hartford.

William Richard Grey, A. B., Davidson, 1884.—Prof. of Latin and French, Davidson Coll.

George Henry Haynes, A. B., Amherst, 1887.—Prof. of History and Political Science, Worcester Polytech. Inst.

Charles Downer Hazen, A. B., Dartmouth, 1889.—Prof. of History, Smith Coll.

Frank Irving Herriott, A. B., Iowa, 1890.—Prof. of Economics, Iowa Coll.

David Hull Holmes, (F), A. B., Ohio Wesleyan, 1885, Acting Prof., Allegheny Coll., 1893–94, Prof., Univ. of Kansas, 1896–97.—Classical Instructor, High School, N. Y.

Arthur John Hopkins, (F), A. B., Amherst, 1885, Prof., Westminster Coll., 1893–94.—Asst. Prof. of Chemistry, Amherst.

Theodore Hough, (F), A. B., 1886, Instructor, McDonogh School, 1886–89.—Asst. Prof. of Biology, Mass. Inst. of Tech.

James Alton James, (F), B. L., Univ. of Wis., 1888, Prof., Cornell Coll., 1893–96.—Prof. of History, Northwestern Univ.

Henry Read McIlwaine, A. B., Hampden-Sidney, 1884.—Prof. of English and History, Hampden-Sidney Coll.

Louis Emil Menger, (F), A. B., Mississippi Coll., 1888, Instructor and Associate, 1893–97.—Assoc. Prof. of Romance Philol., Bryn Mawr.

Colyer Meriwether, A. B., 1886.—Instructor in English, etc., Washington High School.

*Lucius Salisbury Merriam, (F), S. B., Vanderbilt, 1889, Instructor in Political Econ., Cornell, 1893. **November* 18, 1893.

Maynard Mayo Metcalf, (F), A. B., Oberlin, 1889, Bruce Fellow, 1893.—Prof. of Biology, Woman's Coll., Balt.

Daniel Alexander Murray, (F), A. B., Dalhousie, 1884, Assoc. Prof., New York Univ., 1890–94.—Instructor in Mathematics, Cornell.

William Peters Reeves, A. B., 1889, Assistant, Union Coll., 1895–97.—Prof. of English, Iowa State Univ.

Charles Alphonso Smith, A. B., Davidson, 1884.—Prof. of English, La. State Univ.

George Owen Squier, (F), U. S. Mil. Acad., 1887.—Captain, U. S. A.; U. S. Signal Service, Washington.

John Nesbit Swan, A. B., Westminster, Coll., Pa., 1886.—Prof. of Chemistry, Monmouth Coll.

Frederick Tupper, Jr., (F), A. B., Charleston, 1890, Prof., Wells Coll., 1893–94.—Prof. of Rhetoric and English Lit., Univ. of Vt.

Frank Alfred Wolff, Jr., (F), A. B., 1890.—Chemist, Dept. of Agric., Washington.

(28)

1894.

James Nesbit Anderson, A. M., Univ. of Va., 1887, Prof. of Latin and Greek, Univ. of Oklahoma, 1894–96.

John Spencer Bassett, (F), A. B., Trinity (N. C.), 1888.—Prof. of History, Trinity Coll., N. C.

William Julian Albert Bliss, A. B., Harvard, 1888, Assistant, 1890–91, 1895–97, Lecturer, 1894–95, Instructor, Woman's Coll., Balt., 1894–95.—Associate in Physics.

James Douglas Bruce, A. M., Univ. of Va., 1883.—Assoc. Prof. of English Philology, Bryn Mawr.

James Dowden Bruner, A. B., Franklin Coll., 1888, Prof., Univ. of Ill., 1893–95.—Asst. Prof. of Romance Lang., Univ. of Chicago.

John Emery Bucher, A. C., Lehigh, 1891, Instructor, Tufts Coll., 1894–97.—Assoc. Prof. of Chemistry, R. I. Agric. Coll.

Frank Kenneth Cameron, A. B., 1881, Asst. Prof. Catholic Univ., 1895–97.—Assistant in Physical Chemistry, Cornell.

William Embert Chamberlin, A. B., Oberlin, 1887, Instructor, Wabash Coll., 1894–95.—Chemist., New York City.

Abraham Cohen, (F), A. B., 1891.—Associate in Mathematics.

Louis Leaming Forman, A. M., Univ. of Pa., 1890.—Instructor in Greek, Cornell.

Edward Curtis Franklin, S. B., Univ. of Kan., 1888.—Prof. of Physical Chemistry, Univ. of Kansas.

Joseph Hendren Gorrell, A. B., Washington and Lee, 1888.—Prof. of Modern Lang., Wake Forest Coll.

George Perry Grimsley, A. B., Ohio State Univ., 1890.—Prof. of Geology, etc., Washburn Coll.

Ross Granville Harrison, (F), A. B., 1889, M. D., Bonn, 1899, Bruce Fellow, 1894, Lecturer, Bryn Mawr, 1894–95, Instructor and Associate, 1896–99.—Assoc. Prof. of Anatomy.

Robert Nelson Hartman, A. B., Pa. Coll., 1891, Instructor, Tufts Coll., 1896-99.—Prof. of Chemistry, Colo. School of Mines.

Jacob H. Hollander, (F), A. B., 1891, Instructor and Associate, 1894-99.—Assoc. Prof. of Finance.

Lorrain Sherman Hulburt, A. B., Univ. of Wis., 1883, Prof., Univ. of S. Dakota, 1887-91, Fellow, Clark Univ., 1891-92, Instructor and Associate, 1892-97.—Collegiate Prof. of Mathematics.

Masanobu Ishizaka, Ph. B., Albion Coll., 1891.—Lecturer in History and Economics, Mie-Ji-Gaku-In, Tokio.

Thomas Atkinson Jenkins, A. B., Swarthmore, 1887 —Adjunct Prof. of Romance Lang., Vanderbilt.

Christopher Johnston, (F), A. M., Univ. of Va., 1870, M. D., Univ. of Md., 1880, Instructor and Associate, 1891-99.—Assoc. Prof. of Oriental History and Archæology.

Emory Bair Lease, (F), A. B., Ohio Wesleyan, 1885, Prof., Allegheny Coll., 1894-96, Asst. Prof., Univ. of Mich., 1896-99.—Instructor in Latin, Wesleyan Univ.

Arthur Stanley Mackenzie, (F), A. B., Dalhousie, 1885.—Prof. of Physics, Bryn Mawr.

*Edward Payson Manning, (F), A. B., Brown, 1889, Instructor, St. Lawrence Univ., 1894-95. **February* 15, 1897.

Charles Carroll Marden, A. B., 1889, Instructor, Univ. of Mich., 1890-91, Instructor and Associate, 1894-99.—Assoc. Prof. of Romance Lang.

Edward Bennett Mathews, (F), A. B., Colby, 1891, Instructor and Associate, 1894-99.—Assoc. Prof. of Mineralogy.

Philip Randle Moale, A. B., 1889.—Chemist, Asheville, N. C.

Constance Pessels, B. L., Univ. of Texas, 1886, late Instructor in English, Univ. of Texas.

Jesse Siddall Reeves, S. B., Amherst, 1891.—Richmond, Ind.

Arthur Percy Saunders, (F), A. B., Toronto, 1890, Instructor, Univ. of Wis., 1894-96, Asst., McGill Univ., 1898-99.—Asst. in Chemistry, Cornell Univ.

Robert Lincoln Slagle, A. B., Lafayette, 1887.—Prof. of Chemistry, S. Dakota School of Mines.

Rev. Daniel Gurden Stevens, Jr., (F), A. B., 1891, B. D., Crozer Theol. Sem., 1897.—Clergyman, Balt.

Frederick Henry Sykes, (F), A. B., Toronto, 1885, Prof., Western Univ. (Ont.), 1895-97.—University Extension Lecturer, and Editor of *The Citizen*, Phila.

Milo Scott Walker, Ph. B., Wooster, 1889.—Instructor in Chemistry and Physics, Racine (Wis.) High School.

George Francis Weida, (F), Prof., Blackburn Univ., 1894-96, and Baker Univ., 1896-97.—Prof. of Pure Chemistry, Kansas Agric. Coll. (34)

1895.

Rufus Mather Bagg, A. B., Amherst, 1891, Assistant, 1895-97, Acting Prof. of Geology, Colorado Coll., 1898-99.—Science Instructor, Colorado Springs.

Thomas Stockham Baker, (F), A. B., 1891.—Associate in German.

James Curtis Ballagh, A. B., 1894.—Associate in History.

Daniel Base, A. B., 1891.—Assoc. Prof. of Chemistry, Md. Coll. of Pharmacy.

Henry Marvin Belden, A. B., Trinity (Conn.), 1888.—Assoc. Prof. of English, Univ. of Missouri.

Arthur Fisher Bentley, (F), A. B., 1892, late Docent, Univ. of Chicago.—Journalist, Chicago.

Samuel Walker Beyer, (F), S. B., Iowa Agric., 1889.—Assoc. Prof. of Geology, Iowa Agric. Coll.

*William Bromwell, A. B., 1888, Instructor in Chemistry, Pratt. Inst., Brooklyn, 1896-98. **September* 30, 1898.

Clarence Griffin Child, (F), A. B., Trinity, (Conn.), 1886.—Asst. Editor, Worcester's Dictionary; Instructor in English, Univ. of Pa.

Fonger De Haan, (F), Assistant, Instructor, and Associate, 1894-97.—Associate in Spanish, Bryn Mawr.

Charles Sumner Estes, A. B., Colby, 1884, Prof. of Latin, Furman Univ., 1896-98.—Principal of Cook Acad., Montour Falls, N. Y.

Henry Fay, A. B., Lafayette, 1889.—Instructor in Chemistry, Mass. Inst. of Tech.

Henry Stewart Gane, (F), A. B., Amherst, 1891.—U. S. Geol. Survey, Washington.

George William Gray, A. B., 1890.—Chemist, Standard Oil Company, Whiting, Ind.

John Joseph Griffin, A. B., Ottawa Univ., 1881.—Prof. of Chemistry, Catholic Univ.

William August Haussmann (F), A. B., 1892.—Instructor in German, Allegheny (Pa.) High School.

John Haynes, A. B., Williams, 1888, Prof. of History, Norwich Free Academy, 1895-99.—Boston, Mass.

Samuel Rivers Hendren, A. B., Washington and Lee, 1892.—Staunton, Va.

Howard Haines Higbee, A. B., Yale, 1884, Assistant, Tufts Coll., 1895-96.—Assistant in Chemistry, Hamilton Coll.

Rockwell Dennis Hunt, Ph. B., Napa Coll., 1890.—Prof. of History, etc., Univ. of the Pacific.

Joseph Rufus Hunter, A. B., Wake Forest, 1885.—Prof. of Chemistry, Richmond Coll.

George Wesley Johnston, (F), A. B., Toronto, 1886, Acting Asst. Prof., Cornell, 1895-96.—Lecturer in Latin, Univ. of Toronto.

Thomas Franklin Kane, (F), A. B., De Pauw, 1888.—Prof. of Latin, Olivet Coll.

William Jay Karslake, S. B., Lafayette, 1891, Instructor, Dalhousie Univ., 1895-96.—Prof. of Chemistry, Butler Univ.

George Charles Keidel, (F), A. B., 1889.—Associate in Romance Lang.

William Hamilton Kirk, (F), A. B., 1893.—Instructor in Latin, Vanderbilt.

John Holladay Latane, A. B., 1892, Lecturer, 1898-99.—Prof. of History, etc., Randolph-Macon Woman's Coll., Lynchburg, Va.

Exum Percival Lewis, S. B., Columbian, 1888.—Asst. Prof. of Physics, Univ. of Cal.

William Henry Maltbie, (F), A. B., Ohio Wesleyan, 1890.—Prof. of Mathematics, Woman's Coll., Balt.

Solomon Reid McKee, A. B., Davidson, 1888, Prof., Ogden Coll., 1895-99.—Prof. of Chem., Southwestern Presbyterian Univ., Tenn.

Thomas Francis Moran, (F), A. B., Univ., of Mich., 1887.—Prof. of History, etc., Purdue Univ.

Louis Trenchard More, (F), Ph. B., Washington Univ., 1892, Instructor, Worcester Polytech., 1895-96.—Adjunct Prof. of Physics, Univ. of Neb.

Anthony Moultrie Muckenfuss, A. B., Wofford, 1889.—Prof. of Chemistry, Millsaps Coll., Miss.

Lyman Churchill Newell, Ph. B., Brown, 1890.—Instructor in Chemistry, Normal School, Lowell, Mass.

James Flack Norris, (F), A. B., 1892.—Instructor in Chemistry, Mass. Inst. of Tech.

Edwin Fitch Northrup, (F), A. B., Amherst, 1891, Assoc. Prof. of Physics, Univ. of Texas, 1896-97.—Baltimore.

Robert Somerville Radford, Univ. of Va., (B. Ph., 1889, Ph. D., 1891, A. M., 1892), Prof., Washburn Coll., 1897-99.—Associate in Latin Lit., Bryn Mawr.

René de Saussure, École Polytechnique, Paris, Prof. of Mathematics, Catholic Univ., 1895-99.

Thomas Edward Shields, A. M., St. Mary's Sem., 1892.—Instructor in Biology, St. Paul's Theol. Sem., Minn.

John Archer Silver, A. B., Princeton, 1886.—Prof. of History, Hobart Coll.

Alfred William Stratton, (F), A. B., Toronto, 1887, Asst. and Associate, Univ. of Chicago, 1895-99.—Principal and Prof. of Sanskrit, Oriental Coll. of Lahore, India.

William Stuart Symington, Jr., A. B., 1891, Assoc. Prof., Stanford, 1894-95.—Prof. of Romance Lang., Amherst.

Masayoshi Takaki, S. B., Syracuse, 1891.—Tokyo, Japan.

Robert Richardson Tatnall, S. B., Haverford, 1890.—Instructor in Physics, Univ. of Pa.

Thaddeus Peter Thomas, B. P., Univ. of Tenn., 1885.—Prof. of History, Woman's Coll., Balt.

James Waddell Tupper, A. B., Dalhousie, 1891.—Prof. of English Literature and History, Western Univ., Ont.

William Achenbach Wetzel, A. B., Lafayette, 1891.—Ackermanville, Pa. (47)

1896.

Benjamin William Arnold, Jr., A. B., Randolph-Macon, 1891.—Instructor in History, etc., Emory Coll., 1899-1900.

George Melville Bolling, (F), A. B., Loyola, 1891.—Assoc. Prof. of Greek, Catholic Univ.

Ferdinand Bonnotte.—Prof. of Modern Lang., Western Md. Coll.

Alfred Cookman Bryan, A. B., 1892.—Instructor in Economics, Washington High School.

Arthur Douglas Chambers, (F), A. B., Toronto, 1892.—Chemist, Ashburn, Mo.

Julian Alvin Carroll Chandler, A. B., William and Mary, 1891.—Prof. of History and English, Richmond Coll.

James Wilkinson Chapman, Jr., A. B., Washington (Md.), 1892, LL. B., Univ. of Md., 1897.—Atty. at Law, Balt.

Henry Scofield Cooley, S. B., New York Univ., 1891.—Instructor in History, Salt Lake City Coll.

Henry Rushton Fairclough, (F), A. B., Toronto, 1883, Lecturer, Toronto, 1887-93.—Assoc. Prof. of Greek and Latin, Stanford.

Edson Fessenden Gallaudet, A. B., Yale, 1893.—Instructor in Physics, Yale.

William Francis Gallaway, (F), A. B., 1891.—Princ., Chatham Acad., Savannah, Ga.

Frederick Stearns Hollis, S. B., Mass. Inst. of Tech., 1890.—Chemist and Biologist, Metropolitan Water Works, Boston.

Reid Hunt, (F), A. B., 1891, M. D., Phys. and Surg. (Balt.), 1896, Tutor in Physiology, Columbia, 1896-98.—Associate in Pharmacology.

Charles William Leverett Johnson, (F), A. B., 1891.—Instructor in Greek, Yale.

Oliver Martin Johnston, (F), A. B., Mississippi Coll., 1890, Lecturer, Bryn Mawr, 1896-97.—Asst. Prof. of Romanic Lang., Stanford Univ.

Frederick Robertson Jones, A. B., Western Md., 1892, Instructor, Western Md., 1896-97.—Instructor in History, Union Coll.

James Pinckney Kinard, S. C. Mil. Acad., 1886.—Prof. of English, Winthrop Coll.

Henry McElderry Knower, (F), A. B., 1890, Bruce Fellow, 1895-96, Instructor, Williams, 1896-97.—Instructor in Anatomy.

Gordon Jennings Laing, (F), A. B., Toronto, 1891, Fellow, Amer. School of Classical Studies, Rome, 1896-97, Reader and Lecturer, Bryn Mawr, 1897-99.—Instructor in Latin, Univ. of Chicago.

George Lefevre, (F), A. B., 1891, Bruce Fellow, 1895-97, Assistant, 1897-98.—Prof. of Zoölogy, Univ. of Missouri.

Ebenezer Mackay, (F), A. B., Dalhousie, 1886.—Prof. of Chemistry and Mineralogy, Dalhousie.

Raphael Monroe McKenzie, S. B., New York Univ., 1890, Instructor in Chemistry, Univ. of Cincinnati, 1898-99.

Henry Ludwell Moore, (F), A. B., Randolph-Macon, 1892, Instructor, 1896-97.—Prof. of Economics, Smith Coll.

Franklin Lafayette Riley, (F), A. B., Miss. Coll., 1889, Pres., Hillman Coll., 1896-97.—Prof. of History, Univ. of Miss.

Brantz Mayer Roszel, (F), A. B., 1889.—Instructor in Physics, Washington High School.

Herbert Armistead Sayre, B. E., Univ. of Ala., 1893, Prof., Ursinus Coll., 1896-98.—Prof. of Physics, etc., Univ. of Ala.

Frederick George Gottlob Schmidt, (F), Acting Prof., Cornell Coll., 1896-97.—Prof. of Modern Lang., Univ. of Oregon.

Thomas Stanley Simonds, A. B., Harvard, 1884, Prof., Hobart Coll., 1897-99.—Prof. of Latin, Trinity Coll., Conn.

George Otis Smith, (F), A. B., Colby, 1893.—U. S. Geol. Survey, Washington.

Michael Druck Sohon, A. C., Lehigh, 1890, and M. S., 1894.—Instructor in Organic Chemistry, Lehigh.

Francis Edgar Sparks, A. B., 1893.—Archivist, Md. Historical Society.

Frederick William Speirs, S. B., Worcester Polytech., 1888, Prof., Drexel Inst., 1893-98.—Prof. of Economics, Manual Training School, Phila.

Arthur Coe Spencer, S. B., Case School, 1892.—U. S. Geol. Survey, Washington.

Thomas Hardy Taliaferro, (F), C. E., Va. Mil. Inst., 1890.—Instructor in Mathematics, Pa. State Coll.

John Thorne, A. B., Denison, 1885.—Balt.

Harry Langford Wilson, (F), A. B., Queen's Univ. (Ont.), 1887.—Instructor in Latin. (36)

1897.

Gellert Alleman, S. B., Pennsylvania Coll., 1893, Instructor, Univ. of Maine, 1897-98.—Instructor in Chemistry, Washington Univ., St. Louis.

Edward Cooke Armstrong, (F), A. B., Randolph-Macon, 1890.—Associate in Romance Lang.

Byron Briggs Brackett, A. B., Syracuse, 1890, Instructor, Union Coll., 1897-98.—Instructor in Physics, Washington High School.

James Morton Callahan, (F), A. B., Indiana Univ., 1894, Lecturer, Hamilton Coll., 1897-98.—Lecturer in Diplomatic History.

Hubert Lyman Clark, (F), A. B., Amherst, 1892, Instructor, Amherst, 1897-99.—Prof. of Biology, Olivet Coll.

Frank Hollinger Clutz, (F), A. B., Midland, 1892.—Instructor, Midland Coll.

*Franklin Story Conant, (F), A. B., Williams, 1893, Bruce Fellow, 1897. **September* 13, 1897.

William Scofield Day, A. B., Columbia, 1884.—Tutor in Physics, Columbia.

Noah Ernest Dorsey, (F), A. B., 1893.—Associate in Physics.

Pelham Edgar, (F), A. B., Toronto, 1892.—Prof. of Modern Lang., Victoria Univ., Ont.

Samuel Eagle Forman, A. B., Dickinson, 1887.—Director of Teachers' Institutes in Maryland.

William Ritchie Fraser, A. B., Dalhousie, 1882.—Classical Instructor, Irvington, N. Y.

Edwin Luther Green, (F), A. B., Washington and Lee, 1892, Prof. of Greek, Central Univ., Ky., 1898-99.

Arthur Sewall Haggett, (F), A. B., Bowdoin, 1893.—Instructor in Greek, Worcester Acad., Mass.

William Edwards Henderson, (F), A. B., Wooster, 1891, Prof., Ohio Univ., 1897-99. —Asst. Prof. of Anal. Chemistry, Ohio State Univ.

William Jackson Humphreys, (F), A. B., Washington and Lee, 1886.—Instructor in Physics, Univ. of Va.

Rev. Bartlett Burleigh James, A. B., Western Md., 1891.—Clergyman, Charmian, Pa.

Duncan Starr Johnson, (F), S. B., Wesleyan, 1892, Bruce Fellow, 1897-98.—Associate in Botany.

Edwin Wexler Kennedy, A. B., Univ. of Tenn., 1880, Instructor, Woman's Coll., Balt., 1895-97.—Supt. of Schools, Union City, Tenn.

Francis Plaisted King, (F), A. B., Colby, 1890, Asst. State Geologist of Georgia, 1893-96.—Saratoga Springs, N. Y.

Omera Floyd Long, (F), A. B., Ky. Wesleyan, 1890.—Instructor in Latin, Northwestern Univ.

William Tyler Mather, (F), A. B., Amherst, 1886, Assistant, 1897.—Assoc. Prof. of Physics, Univ. of Texas.

John McLaren McBryde, Jr., (F), A. B., Univ. of S. C., 1890.—Prof. of English, Hollins Inst., Va.

John Frederick Mohler, (F), A. B., Dickinson, 1887.—Prof. of Physics, Dickinson.

Charles Patrick Neill, A. B., Georgetown, 1891 —Assoc. Prof. of Economics, Catholic Univ.

Robert Stewart Norris, S. B., Univ. of Cal., 1892.—Chemist, Experiment Sta., Middletown, Conn.

Philip Ogden, A. B., Cornell, 1891.—Associate in Romance Lang.

Nathan Allen Pattillo, S. B., Southern Univ., 1887, Prof., Alabama Normal Coll., 1897-99.—Prof. of Mathematics, Randolph-Macon Woman's Coll., Lynchburg.

Alexander Pell, (F).—Prof. of Mathematics, Univ. of S. Dakota.

Charles Dabney Ragland, (F), A. B., Randolph-Macon, 1889.—Prof. of Chemistry, Randolph-Macon.

Milton Reizenstein, A. B., 1894.—Asst. Agent, Baron Hirsch Foundation, N. Y.

Frank Roy Rutter, (F), A. B., 1894.—U. S. Geological Survey, Washington.

John Adams Scott, (F), A. B., Northwestern, 1891.—Asst. Prof. of Greek, Northwestern Univ.

George Burbank Shattuck, (F), S. B., Amherst, 1892.—Associate in Geology.

George Shipley, A. B., Randolph-Macon, 1887.—English Master, Boys' Latin School; Asst. Editor, *The Baltimore American.*

Charles Peter Sigerfoos, S. B., Ohio State Univ., 1889, Assistant in Zoology, 1895-97.—Asst. Prof. of Biology, Univ. of Minn.

Enoch Walter Sikes, A. M., Wake Forest, 1891.—Prof. of Political Science and History, Wake Forest.

William Bull Stoddard, S. B., Univ. of Colo., 1894.—Instructor in Chemistry, Colo. School of Mines.

Hugo Paul Thieme, A. B., 1893, Asst. Prof., Earlham Coll., 1897-98.—Instructor in French, Univ. of Mich.

George Washington Ward, A. B., Western Md., 1890.—Prof. of History, etc., Western Md. Coll.

Louis Napoleon Whealton, A. B., Western Md., 1892, LL. B., Univ. of Md., 1897.—Atty. at Law, N. Y.

Charles Francis Woods, Jr., A. B., 1891, Prof., Woman's Coll., Richmond, 1897-99.—Asst. Prof. of Modern Lang., Swarthmore Coll. (42)

1898.

Cleveland Abbe, Jr., (F), A. B., Harvard, 1894, Prof., Western Md. Coll., 1898-99.—Prof. of Natural Sciences, Winthrop Coll.

Howard Bell Arbuckle, A. B., Hampden-Sidney, 1889.—Instructor in Sciences, Decatur, Ga.

Arthur Henry Baxter, A. B., 1894.—Modern Lang. Master, Country School for Boys, Balt.

Ernest Julius Becker, A. B., 1894.—Asst. in Modern Lang., Woman's Coll., Richmond, Va.

Charles Hillman Brough, (F), A. B., Mississippi Coll., 1894.—Prof. of Economics and History, Mississippi Coll.

Murray Peabody Brush, A. B., Princeton, 1894, Instructor, Ohio State Univ., 1898-99.—Instructor in Romance Lang.

Killis Campbell, (F), A. B., William and Mary, 1894, Prof., Culver Military Acad., Ind., 1898-99.—Instructor in English, Univ. of Texas.

Charles Gilpin Cook, S. B., Haverford, 1892. —Science Instructor, Brooklyn, N. Y.

Frederick Henry Duryea Crane, A. B., Union, 1893.—Analytical Chemist, N. Y.

Gilman Arthur Drew, (F), S. B., Iowa Univ., 1890, Bruce Fellow, 1898.—Assistant in Zoology.

William Alexander Eckels, A. B., Dickinson, 1883, Prof. in Ripon Coll., 1891-93.—Prof. of Greek, Miami Univ.

John Eiesland, A. B., Univ. of S. Dak., 1891.—Prof. of Mathematics, Thiel Coll.

Charles Wilson Greene, (F), A. B., Stanford, 1892.—Asst. Prof. of Physiology, Stanford.

James Graham Hardy, (F), A. B., Lafayette, 1894.—Instructor in Mathematics, Williams.

Lancelot Minor Harris, A. B., Washington and Lee, 1888, Instructor and Asst. Prof., Indiana Univ., 1894-98.—Prof. of English, Charleston Coll., S. C.

Caleb Notbohm Harrison, B. C. E., Univ. of Wis., 1882.—Prof. of Machine Design, Univ. of Wisconsin.

Charles Hoeing, (F), A. B., Ky. State Coll., 1890.—Instructor in Latin, Univ. of Rochester.

William App Jones, (F), A. B., Wake Forest, 1893.—Analytical Chemist, N. Y.

Percy Lewis Kaye, A. B., Iowa Univ., 1895.—Instructor in History, Iowa Univ.

Samuel Shipman Kingsbury, A. B., Marietta, 1893.—Instructor in Greek, Princeton Preparatory School.

Guy Carleton Lee, (F), A. B., Dickinson, 1895.—Instructor in History.

Arthur Gray Leonard, A. B., Oberlin, 1889.—Acting Prof. of Geology, Univ. of Missouri.

Charles Elwood Mendenhall, (F), S. B., Rose Polytech., 1894.—Instructor in Physics, Williams.

Samuel Alfred Mitchell, (F), A.M., Queen's Univ. (Ont.), 1894, Fellow, Univ. of Chicago, 1898-99.—Tutor in Astronomy, Columbia Univ.

Cleophas Cisney O'Harra, A. B., Carthage, 1891.—Prof. of Geology, etc., S. Dakota School of Mines.

Daniel Allen Penick, (F), A. B., Univ. of Texas, 1891.—Instructor in Greek and Latin, Univ. of Texas.

Thomas Dobbin Penniman, A. B., 1892.—Baltimore.

Charles William Peppler, (F), A. B., 1892.—Prof. of Greek, Emory Coll., Ga.

Ebenezer Emmet Reid, (F), A. M., Richmond, 1892.—Prof. of Chemistry, etc. Charleston Coll., S. C.

Edward Rhoads, S. B., Haverford, 1893.—Instructor in Physics, Worcester Polytech. Inst.

Garnett Ryland, A. M., Richmond, 1892.—Instructor in Chemistry, Univ. of Maine.

William Berney Saffold, (F), A. B., Univ. of Ala., 1887.—Prof. of Latin and Greek, Univ. of Ala.

Aristogeiton Marcus Soho.—Prof. of Greek and French, St. John's Coll., Md.

Charles William Waidner, (F), A. B., 1896, Asst., 1898-99.—Assistant in Physics, Williams Coll.

Richard Henry Wilson, A. B., 1892, Instructor, 1898-99.—Assoc. Prof. of Romance Lang., Univ. of Va.

Albert Francis Zahm, A. M., Notre Dame, 1885.—Assoc. Prof. of Mechanics, Catholic Univ. (36)

1899.

Thomas Sewell Adams, (F), A. B., 1896.—Statistician, U. S. Census Bureau.

John William Basore, (F), A. B., Hampden-Sidney, 1893.—Prof. of Latin, Hampden-Sidney Coll.

Edward William Berger, Ph. B., Baldwin, 1894.—Prof. of Biology, Baldwin Univ.

William Noland Berkeley, S. B., St. John's, 1896.—Government Chemist, San Juan, Puerto Rico.

Pierce Butler, (F), A. B., Tulane, 1892.—Asst. Ed., Worcester's Dictionary, Philadelphia.

Horace Greeley Byers, A. B. and S. B., Westminster (Pa.), 1895.—Prof. of Chemistry, Univ. of Washington.

Joseph Scudder Chamberlain, (F), S. B., Iowa Agric., 1890.—Instructor in Chemistry, Oberlin.

Francis Whittemore Cragin, S. B., Harvard, 1882.—Prof. of Geology, Colorado Coll.

George Vail Edwards, A. B., Hamilton, 1891.—Riverhead, N. Y.

James Rees Ewing, A. B., Ohio Wesleyan, 1890.—Washington, D. C.

Oliver Lanard Fassig, S. B., Ohio State Univ., 1882.—Instructor in Climatology.

George Stronach Fraps, (F), S. B., N. C. Agric., 1896.—Asst. Prof. of Chemistry, N. C. Agric. Coll.

Pierre Joseph Frein, (F), A. B., Williams, 1892.—Instructor in Romance Languages, Stanford.

Leonidas Chalmers Glenn, (F), A. B., South Carolina Coll., 1891.—Assoc. Prof. of Biology and Geology, S. C. Coll.

Caswell Grave, (F), S. B., Earlham, 1895.—Bruce Fellow; Scientific Investigator, U. S. Fish Commission.

Nathaniel Edward Griffin, A. B., 1894.—Instructor in English, Iowa State Univ.

Karl Josef Grimm, (F).—Rayner Fellow in Semitic Lang.

Hollister Adelbert Hamilton, (F), A. B., Rochester, 1892.—Lecturer in Greek, Bryn Mawr.

Willis Bolt Holmes, A. B., Harvard, 1896.—Instructor in Chemistry, Mass. Inst. of Tech.

George Oscar James, (F), A. B., 1895, Instructor in Physics, Univ. of Utah, 1896–97.—Fellow by Courtesy.

James William Kern, Univ. of Va., 1881.—Fellow by Courtesy.

George Philip Krapp, A. B., Wittenberg, 1894.—Instructor in English, Teachers College, N. Y.

William Kurrelmeyer, (F), A. B., 1896.—Prof. of Modern Lang., Franklin and Marshall Coll.

Alvin Fayette Lewis, A. B., Princeton, 1884.—Prof. of History, Univ. of Arkansas.

Joseph Francis Merrill, (F), S. B., Michigan, 1893.—Prof. of Physics, Univ. of Utah.

Alfred William Milden, (F), A. B., Toronto, 1888.—Fellow by Courtesy.

Walter Alexander Montgomery (A. B., 1892).—Instructor in Classics, Univ. of Arkansas.

Daniel Esten Motley, A. B., Milligan, 1894.

Rokuro Nakaseko, Doshisha Univ., Tokyo, 1889.—Fellow in Chemistry, Yale.

William Albert Nitze, (F), A. B., 1894.—Lecturer in Romance Lang., Columbia.

Frederick Albert Saunders, (F), A. B., Toronto, 1895.—Instructor in Physics, Haverford.

Laurence Frederick Schmeckebier, (F), A. B., 1896.—U. S. Geological Survey, Washington.

St. George Leakin Sioussat, A. B., 1896.—Instructor in History, Smith Coll.

Charles William Sommerville, A. B. and S. B., Hampden-Sidney, 1890.—Fellow by Courtesy.

Mervin Tubman Sudler, S. B., Md. Agric., 1894.—Assistant in Anatomy.

Morris Crater Sutphen, A. B., Princeton, 1890.—Instructor in Latin.

William Taylor Thom, A. B., Washington and Lee, 1869.—Ashton, Md.

Harold John Turner, A. B., 1892.—Science Instructor, Baltimore.

Campbell Easter Waters, A. B., 1895.—Fellow by Courtesy. .

Henry Skinner West, (F), A. B., 1893.—Instructor in English.

Francis Daniel Wilson, S. B., Va. Polytech., 1894.—Assistant in Chemistry, Tufts Coll.

James Henry Curry Winston, A. B. and S. B., Hampden-Sidney, 1894.—Adjunct Prof. of Physical Science, Hampden-Sidney. (42)

1900.

Rev. Adolph Guttmacher, A. B., Cincinnati, 1887.—Rabbi, Baltimore.

John Charles Olsen, (F), A. B., Knox, 1890.—Fellow in Chemistry. (2)

(Degrees will also be conferred at the close of the academic year in June.)

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9. Doctors of Medicine.

(When the institution is not named, this university is to be understood. (F) indicates that the person has held a fellowship here.)

1897.

Charles Russell Bardeen, A. B., Harvard, 1896.—Associate in Anatomy.

Thomas Richardson Brown, A. B., 1892.—Chief of Med. Clinic, J. H. Dispensary; Physician, Balt.

*Walter S. Davis, S. B., Amherst, 1893. **September* 27, 1898.

Louis Philip Hamburger, A. B., 1893.—Assistant in Medicine; Physician, Balt.

Guy LeRoy Hunner, S. B., Univ. of Wis., 1893.—Asst. Gynecologist, J. H. Hospital.

Irving Phillips Lyon, A. B., Yale, 1893.—Instructor, Univ. of Buffalo; Physician, Buffalo.

William George MacCallum, A. B., Toronto, 1894.—Assistant in Pathology.

Charles Neil McBryde, S. B., Univ. of S. C., 1891, M. S., Va. Polytechnic, 1892.—Physician, Blacksburg, Va.

James Farnandis Mitchell, A. B., 1891.—Asst. Surgeon, J. H. Hospital.

Joseph Longworth Nichols, (F), A. B., Harvard, 1893.—Student, Univ. of Berlin.

Eugene Lindsay Opie, (F), A. B., 1893.—Assistant in Pathology.

Mary Secord Packard, A. B., Vassar, 1892.—Physician, College Settlement, Pittsburgh.

Omar Borton Pancoast, S. B., Swarthmore, 1893.—Resident Surgeon, Union Protestant Infirmary, Balt.

Clement Andariese Penrose, A. B., 1893.—Physician, Balt.

Richard Pearson Strong, Ph. B., Yale, 1893. —Asst. Surgeon, U. S. A., Manila. (15)

1898.

William Stevenson Baer, A.B., 1894.—Asst. Surgeon, J. H. Hospital.

William Jephtha Calvert, A. B., Ky. Univ., 1893.—Asst. Surgeon, U. S. A., Manila.

Patrick Joseph Cassidy, A. B., Yale, 1894.—Physician, New London, Conn.

John Williams Coe, Ph. B., Yale, 1893.—Resident Physician, Presbyterian Hospital, N. Y.

Percy Millard Dawson, (F), A. B., 1894.—Assistant in Physiology.

Arthur Wells Elting, A. B., Yale, 1894.—Asst. in Pathology, Albany Med. School.

William Weber Ford, A. B., Adelbert, 1893. —Fellow in Pathology, McGill Univ.

Thomas Woods Hastings, A. B., 1894.—Surgeon, Hospital Ship "Maine."

Alfred Birch Herrick, A. B., Williams, 1894. —Resident Physician, Soldiers' Home, Washington.

James Hall Mason Knox, Jr., A. B., Yale, 1892, Ph. D., Yale, 1894, A. M., Lafayette, 1896.—Physician, Balt.

Millard Langfeld, A. B., 1893.—Prof. of Bacteriology, Creighton Med. Coll.; Physician, Omaha.

Gertrude Underhill Light, S. B., Univ. of Wis., 1894.—Demonstrator of Pathology, College of Phys. and Surg., and Physician, Milwaukee.

James Daniel Madison, S. B., Univ. of Wis., 1894.—Asst. Physician, Danvers Insane Hospital, Mass.

Harry Taylor Marshall, (F), A. B., 1894.—Fellow in Pathology.

Roger Griswold Perkins, A. B., Union, 1893, and Harvard, 1894.—Resident Pathologist, Lakeside Hospital, Cleveland; Demonstrator of Pathology, Western Reserve Univ.

Katherine Porter, A. B., Bryn Mawr, 1894. —Physician, Orange, N. J.

Joseph Hersey Pratt, Ph. B., Yale, 1894.—Asst. Pathologist, City Hospital, Boston.

Georgiana Sands, A. B., Vassar, 1893.—Physician, Port Chester, N. Y.

Benjamin Robinson Schenck, A. B., Williams, 1894.—Asst. Gynecologist, J. H. Hospital.

Walter Ralph Steiner, A. B., Yale, 1892, and A. M., 1895.—Physician, Hartford, Conn.

Emma Elizabeth Walker, A.B., Smith, 1887. —Physician, New York.

Andrew Henderson Whitridge, S. B., Harvard, 1894.—Physician, Balt. (22)

1899.

Edward Erle Brownell, Ph. B., Yale, 1895. —House Officer, J. H. Hospital.

Humphrey Warren Buckler, A. B., 1895.—House Officer, J. H. Hospital.

Rufus Ivory Cole, S. B., Michigan, 1896.—House Officer, J. H. Hospital.

Frank Curtis Davis, A. B., Amherst, 1895. —Physician, Minneapolis.

John Staige Davis, Ph. B., Yale, 1895.—House Officer, J. H. Hospital.

Charles Phillips Emerson, A. B., Amherst, 1894.—House Officer, J. H. Hospital.

Blanch Nettleton Epler, S. B., California, 1895.—House Physician, Randall's Island Hospital, N. Y.

Joseph Erlanger, S. B., California, 1895.—House Officer, J. H. Hospital.

Philip Saffery Evans, Jr., A. B., Yale, 1895. —Baltimore.

Richard Holden Follis, Jr., Ph. B., Yale, 1895.—Externe, J. H. Hospital.

Frank Taylor Fulton, S. B., Knox, 1894, A. B., 1895.—Interne, City Hospital, Boston.

James Daton Gallagher, A.B., 1895.—Physician, Lakeside Hospital, Cleveland.

Henry Harris, A. B., Stanford, 1895.—House Officer, J. H. Hospital.

Henry Joseph Hoye, A. B., Brown, 1895.—Interne, City Hospital, Boston.

Louis Williams Ladd, A. B., Yale, 1895.—Acting Asst. Physician, J. H. Hospital.

Charles Sumner Little, A. B., Wabash, 1894. —Physician, Evansville, Ind.

John Arthur Luetscher, S. B., Wisconsin, 1895.—House Officer, J. H. Hospital.

Frank Allemong Lupton, S. B., Ala. Polytech., 1891.—Physician, Auburn, Ala.

Frank Worthington Lynch, A. B., Adelbert, 1895.—Asst. Resident Obstetrician, J. H. Hospital.

Chester Lea Magee, A. B., Stanford, 1895. —Asst. Physician, Bay View Asylum.

Hugh Miller Moore, S. B., Miami, 1895.—Physician, Oxford, O.

Charles Williams Ottley, A. B., Princeton, 1893.—New York.

Paul Octavius Owsley, Ph. B., Yale, 1895.—Asst. Surgeon, St. Joseph's Hospital, Balt.

Jacob Hall Pleasants, Jr., A. B., 1895.—House Officer, J. H. Hospital.

Sylvan Rosenheim, A. B., 1895.—Student, Berlin.

John Albertson Sampson, A. B., Williams, 1895.—House Officer, J. H. Hospital.

Halbert Severin Steensland, S. B., Wisconsin, 1895.—Physician, Madison, Wis.

William Ridgely Stone, A. B., Princeton, 1895.—Interne, Blackwell's Island Hospital, N. Y.

Edgar Randolph Strobel, A. B., 1895.—Externe, J. H. Hospital and Dispensary; Physician, Balt.

Frederick Herman Verhoeff, Ph. B., Yale, 1895.—Externe, J. H. Hospital and Dispensary; Asst. Surgeon, Baltimore Eye, Ear and Throat Hospital.

William Whitridge Williams, A. B., 1895.—Resident Physician, Lakeside Hospital, Cleveland.

Sarah Delia Wyckoff, S. B., Wellesley, 1894.—House Officer, J. H. Hospital.

John Lawrence Yates, Ph. B., Yale, 1894, S. B., Wisconsin, 1895.—House Officer, J. H. Hospital. (33) (70)

10. Bachelors of Arts.

(When the institution is not named, this university is to be understood. (F) indicates that the person has held a fellowship here.—*Died.)

1879.

George Washington McCreary, City Librarian, Balt., 1896–98.—Baltimore.

Chase Palmer, (F), Ph. D., 1882, Assistant, Mass. Inst. of Tech., 1882–83, Prof., Mass. Normal School, Salem, 1883–87, Assistant, Tufts Coll., 1887–88, Prof., Wabash Coll., 1888–90.—Prof. of Chemistry, Manual Training High School, Louisville, Ky.

Edward Henry Spieker, (F), Ph. D., 1882, Instructor and Associate, 1882–88.—Assoc. Prof. of Greek and Latin. (3)

1880.

Rev. Thomas Milton Beadenkopf, B. D., Yale, 1885.—Clergyman, Balt.

Allen Kerr Bond, M. D., Univ. of Md., 1882.—Physician, Balt.

William Cathcart Day, (F), Ph. D., 1883, Prof., St. John's Coll., 1883–84, and Univ. of Nashville, 1884–87.—Prof. of Chemistry, Swarthmore Coll.

Henry Laurence Gantt, M. E., Stevens Inst. of Tech., 1884, Instructor, McDonogh School, 1886–87.—Fitchburg, Mass.

Edgar Goodman, LL. B., Univ. of Md., 1881.—Editor, *The Baltimore American.*

Rev. Carl Eckhardt Grammer, Va. Theol. Sem., 1884, S. T. D., Trinity (Conn.), 1895, Prof., Va. Theol. Sem., 1887–97.—Clergyman, Norfolk, Va.

Alexander Fridge Jamieson.—Latin Master, Lawrenceville School, N. J.

*Edmund Allen Jarvis. **October* 15, 1880.

Stewart Brian Linthicum, LL. B., Univ. of Md., 1882.—Atty. at Law, Portland, Ore.

John Hanson Lowe, LL. B., Univ. of Md., 1882.—Atty. at Law, Balt.

Rev. Leigh Clinton Morgan, late Instructor, Kenyon Coll.—Clergyman, Morristown, N. Y.

*Nelson Palmer. **June* 12, 1886.

Thomas Pettigrew.—Civil Engineer, Parkersburg, W. Va.

Harry Fielding Reid, (F), Ph. D., 1885, Assistant, 1882–84, Lecturer, 1894–96, Prof., Case School, 1886–94, Assoc. Prof., Univ. of Chicago, 1895–97.—Assoc. Prof. of Geological Physics.

Rev. Wiltz Raymond Stricklen.—Clergyman, Washington, D. C.

Lewis Webb Wilhelm, (F), Ph. D., 1884.—Vice-Principal and Mathematical Master, Gymnasium School, Balt. (16)

1881.

William Wilson Baden, (F), Ph. D., 1892, LL. B., Univ. of Md., 1883, Prof., Southwestern Univ., 1892–93, and Central Univ., 1893–96.—Prof. of Latin, Univ. of Idaho.

Henry Johns Bowdoin, LL. B., Univ. of Md., 1883.—Atty. at Law, Balt.

John Wilson Brown.—Philadelphia, Pa.

David Talbot Day, (F), Ph. D., 1884.—U. S. Geol. Survey, Washington.

William Henry Howell, (F), Ph. D., 1884, M. D., Univ. of Mich., 1890, Assistant, Associate, and Assoc. Prof., 1884–89, Lecturer and Prof., Univ. of Mich., 1889–92, Assoc. Prof., Harvard, 1892–93.—Professor of Physiology and Dean of the Medical Faculty; Assoc. Editor, *Journal of Experimental Medicine.*

John Hemsley Johnson, LL. B., Univ. of Md., 1887, Instructor, McDonogh School, 1881–86.—Atty. at Law, Balt.

James Edward Keeler, D. Sc., Univ. of Cal., 1893, Allegheny Observ., 1882–86, Fellow, Royal Astron. Society of London, Lick Observ., 1886–91, Rumford Medallist of the American Acad. of Arts and Sciences, 1898, Prof., Western Univ. of Pa., and Director, Allegheny Observatory, 1891–98.—Director, Lick Observatory.

Rev. Edwin George Richardson.—Clergyman, Milwaukee, Wis.

Adoniram Judson Robinson, LL. B., Univ. of Md., 1885, Instructor, Balt. City Coll., 1881–87.—Atty. at Law, Balt.; Member, Md. House of Delegates, 1900.

*Henry Rolando, M. D., Univ. of Md., 1883. **October* 4, 1888.

Lee Sale, LL. B., Washington Univ., 1885, Instructor, Louisville High School, 1881–83.—Atty. at Law, St. Louis, Mo.; Lecturer, St. Louis Law School.

Mactier Warfield, M. D., Univ. of Md., 1884.—Physician, Balt. (12)

1882.

William Hughlett Adkins, LL. B., Univ. of Md., 1883.—Atty. at Law, Easton, Md.

Thomas Alexis Berry.—Baltimore.

Gustav Bissing, (F), Ph. D., 1885, Examiner, U. S. Patent Office, 1884–98.—Patent Atty., Washington.

Walter Bernard Clarkson, Teacher, Member of Board of Education, and Supt. of Schools, St. Augustine and Jacksonville, 1878–89.—Atty. at Law, Jacksonville, Fla.

Herman Louis Ebeling, (F), Ph. D., 1891, Prof. of Greek, Miami Univ., 1891–99.—Trenton, N. J.

Louis Garthe.—Journalist, Baltimore.

Edward Ingle.—Journalist, Baltimore.

Richard Fuller Kimball, LL. B., Univ. of Md., 1884.—Atty. at Law, Balt.

*Gustav Adolph Liebig, Jr., (F), Ph. D., 1885, Assistant, 1887–90. **February* 10, 1897.

Charles William Emil Miller, (F), Ph. D., 1886, Peoria (Ill.) High School, 1888–90, and Walther Coll., St. Louis, 1890–91.—Assoc. Prof. of Greek.

James Page.—U. S. Hydrographic Office, Washington.

Albert Gallatin Palmer, (F), Ph. D., 1885, Assistant and Asst. Prof., Swarthmore, 1885–87.—Norwood, Md.

Robert Miller Reese.—Baltimore.

*Louis Tebbett Stevens (F), M. D., Harvard, 1887, late Lecturer, Washington Univ. **February* 9, 1898.

Herbert Thorndyke Tiffany, LL. B., Univ. of Md., 1885.—Washington, D. C. (15)

1883.

William Shirley Bayley, (F), Ph. D., 1886.—U. S. Geological Survey; Prof. of Geology and Mineralogy, Colby Univ.

Maurice Fels, LL. B., Univ. of Pa., 1886.—Atty. at Law, Philadelphia.

David Sterrett Gittings.—Baltimore.

William Beatty Harlan, LL. B., Univ. of Md., 1885, A. M., St. John's, 1888.—Atty. at Law, Belair, Md.

George Theophilus Kemp, (F), Ph. D., 1886, M. D., Long Island Med. Coll., 1891, Demonstrator, Univ. of Pa., 1886–87, Associate and Assoc. Director, etc., Hoagland Lab., 1888–93.—Prof. of Physiology, Univ. of Illinois.

Gonzalez Lodge, (F), Ph. D., 1886, Prof., Davidson, 1886–88.—Prof. of Latin, Bryn Mawr.

William Edgar Stratton, M. D., Harvard, 1886.—Physician, Brooklyn, N. Y.

Henry Winslow Williams, LL. B., Univ. of Md., 1885.—Atty. at Law, Balt.

Henry Van Peters Wilson, (F), Ph. D., 1888, Bruce Fellow, 1888–89.—Prof. of Biology, Univ. of N. C.

William John Witzenbacher, Instructor, McDonogh School, 1883–86.—Atty. at Law, Hagerstown, Md. (10)

1884.

Rev. Albert Clayton Applegarth, Ph. D., 1887.—Clergyman, Chester, Pa.

Charles Walter Artz, LL. B., Columbia, 1886.—Atty. at Law, N. Y.

Walter Bliss Canfield.—Chemist, Pittsburg.

George Gibson Carey, LL. B., Univ. of Md., 1886.—Atty. at Law, Balt.

William Kennedy Cromwell.—Baltimore.

Charles William Remsberg Crum, M. D., Univ. of Md., 1888, Instructor, Mercersburg Coll., 1884–86, 1889–90, Prof. of Mathematics, Ursinus Coll., 1892–95, Graduate Student, 1898–1900.

Harry Friedenwald, M. D., Phys. and Surg., Balt., 1886.—Physician, Balt.; Assoc. Prof., Coll. of Phys. and Surg.

Rev. William Lindsay, Glenn, LL. B., Univ. of Md., 1888.—Clergyman, Balt.

John Hinkley, LL. B., Univ. of Md., 1886.—Atty. at Law, Balt.

Charles Morris Howard, LL. B., Univ. of Md., 1888.—Atty. at Law, Balt.

John Deering Lord, Jr., LL. B., Columbia, 1886.—Atty. at Law, Balt.

Jere Williams Lord, M. D., Univ. of Pa., 1887.—Clinical Prof. of Dermatology and Instructor in Anatomy.

William Patrick Lyons, LL. B., Univ. of Md., 1886.—Atty. at Law, Balt.

Edgar George Miller, Jr., LL. B., Univ. of Md., 1886.—Atty. at Law, Balt.

William Ridgely Orndorff, (F), Ph. D., 1887.—Asst. Prof. of Organic Chemistry, Cornell.

George Dobbin Penniman, LL. B., Univ. of Md., 1886.—Atty. at Law, Balt.

William Henry Perkins, Jr., LL. B., Univ. of Md., 1888.—Atty. at Law, Balt.

*George Clement Stokes, Jr., LL. B., Univ. of Md., 1888. **January* 21, 1897.

*William John Thomas, Prof. of Mathematics, Western Md. Coll., 1884–85. **March* 9, 1885.

*William Ferdinand Walz. **March* 21, 1887.

Frederick Henry Wilkens, Ph. D., Leipsic, 1891, Asst. Prof. of German, Univ. of Wis., 1893–96.—Berlin, Germany.

George Wishart Edmond. (*extra ordinem*), Assistant, 1889–90.—Garvanza, Cal.

Charles Howard Shinn, (*extra ordinem*).—Inspector of Agric. Experiment Stations, Univ. of Cal. (23)

1885.

John Pendleton Campbell, (F), Ph. D., 1888.—Prof. of Biology, Univ. of Ga.

John Glenn, Jr., LL. B., Univ. of Md., 1887.—Atty. at Law, Balt.

Rt. Rev. Junius Moore Horner, S. T. B., General Theol. Sem., N. Y., 1890, late Classical Instructor, Oxford, N. C.—P. E. Missionary Bishop of Asheville.

James Albert Loane.—Baltimore.

Harry Wilbur Price, LL. B., Columbian, 1887.—Atty. at Law, Chicago.

Benjamin Titus Roberts, Jr.

Moses Roth Ryttenberg, LL. B., Univ. of Md., 1888.—Atty. at Law, N. Y.

Hugo Steiner, LL. B., Univ. of Md., 1887.—Atty. at Law, Balt.

Henry Hazlehurst Wiegand.—Electrical Engineer, Balt. (9)

1886.

Joseph Sweetman Ames, (F), Ph. D., 1890, Assistant, Associate, and Assoc. Prof., 1889–93.—Professor of Physics.

Wilson Lloyd Bevan, S. T. B., General Theol. Sem., N. Y., 1889, A. M. and Fellow of Columbia, 1889, Ph. D., Munich, 1893.—Instructor, Univ. of the South.

Thomas Hepburn Buckler, M. D., Univ. of Md., 1888.—Physician, Balt.

Alfred Robert Louis Dohme, Ph. D., 1889.—Manufacturing Chemist, Balt.

Albert Alvin Doub, Teacher, Frostburg, Md., 1886–93.—Atty. at Law, Cumberland.

William Snyder Eichelberger, (F), Ph. D., 1891, Instructor, Wesleyan Univ., 1891–96.—Prof. of Mathematics, U. S. Navy, Washington.

Harry English.—Instructor, High School, Washington, D. C.

Abraham Flexner.—Principal, Flexner's School, Louisville, Ky.

William Edward Gates.—Cleveland, O.

*William Curns Lawrence Gorton, (F), Ph. D., 1889, Assoc. Prof. and Prof. of Mathematics, Woman's Coll., Balt., 1888–94. **November* 8, 1894.

Joseph Edward Harry, (F), Ph. D., 1889.—Prof. of Greek and German, Georgetown Coll., Ky.

Benjamin Henry Hartogensis, Journalist, Balt., 1890–96.—Atty. at Law, Balt.

James Shaler Hodges, Instructor, St. Paul's School, N. H., 1886–88.—Electrical Engineer, Balt.

Theodore Hough, (F), Ph. D., 1893, Instructor, McDonogh School, 1886–89.—Asst. Prof. of Biology, Mass. Inst. of Tech.

Percy Meredith Hughes.—Principal, Central High School, Washington, D. C.

John Henry Laessig, Jr.—Engineer, Balt.

Allan McLane, Jr., LL. B., Univ. of Md., 1888.—Atty. at Law, Balt.

John Hanson Thomas McPherson, (F), Ph. D., 1890, Instructor, Univ. of Mich., 1890–91.—Prof. of History, Univ. of Ga.

Colyer Meriwether, Ph. D., 1893.—Instructor in English, High School, Washington.

John Pleasants.—Baltimore.

Richard Hall Pleasants, Jr., LL. B., Univ. of Md., 1889.—Atty. at Law, Balt.

William Flood Smith, M. D., Phys. and Surg., Balt., 1889, Instructor, McDonogh School, 1886–87.—Physician, Balt.

Michael Daniel Stein.—Street Railway Supt., San Francisco.

Bernard Wiesenfeld, LL. B., Univ. of Md., 1889.—Atty. at Law, Balt.

John Whitridge Williams, M. D., Univ. of Md., 1888.—Prof. of Obstetrics.

Langdon Williams. — Teacher, Philadelphia.

*William Klapp Williams, Ph. D., 1889.— **June* 4, 1897.

John Randolph Winslow, M. D., Univ. of Md., 1888.—Physician, Balt.

*Allan Chase Woods. **September* 9, 1886.

Frederick George Young, Vice-Pres., S. Dakota Normal School, 1888–91.—Prof. of Economics, etc., Univ. of Oregon.

*Thomas McCabe, (*extra ordinem*), (F), Ph. D., 1888, Instructor, Univ. of Mich., 1888–89, Prof., Indiana Univ., 1889–90, Associate in French, Bryn Mawr, 1890–91. **February* 22, 1891. (31)

1887.

Edward Carey Applegarth, (F), Ph. D., 1890, M. D., Phys. and Surg., Balt., 1892. —Physician, Balt.

Richard Howard Bayard, LL. B., Univ. of Md., 1889.—Atty. at Law, Balt.

Herbert Maxwell Brune, LL. B., Univ. of Md., 1889.—Atty. at Law, Balt.

Charles Edward Coates, Jr., Ph. D., 1891, Prof., St. John's Coll., 1891–93.—Prof. of Chemistry, La. State Univ.

Rev. William Roswell Cole, B. D., Harvard, 1890.—Clergyman, Cohasset, Mass.

Paul Joseph Dashiell, Ph. D., 1891, Instructor, Lehigh, 1889–90, 1891–92.—Prof. of Chemistry, U. S. Naval Acad.

George Peter Dreyer, (F), Ph. D., 1890, Demonstrator, 1890–92.—Associate in Biology.

Edward Duffy, Jr., LL. B., Univ. of Md., 1889.—Atty. at Law, Balt.

James Clark Fifield.—Atty. at Law, Minneapolis, Minn.

Julius Friedenwald, M. D., Phys. and Surg. (Balt.), 1890, A. M., Loyola, 1898.—Physician, Balt.; Assoc. Prof. of Pathology, Coll. of Phys. and Surg.

Douglas Huntly Gordon, LL. B., Univ. of Md., 1889.—Pres., International Trust Co., Balt.

Jay Cæsar Guggenheimer, LL. B., Columbia, 1891.—Atty. at Law, N. Y.

Charles Homer Haskins, Ph. D., 1890, Instructor, 1889–90.—Prof. of Institutional History, Univ. of Wis.

George Lincoln Hendrickson, Prof., Colorado Coll., 1889–91, and Univ. of Wis., 1891–96.—Prof. of Latin, Univ. of Chicago.

Franz Otto Karl Hoffmann.—Berlin, Germany.

Robert Milligan McLane, Jr., LL. B, Univ. of Md., 1891.—State's Atty., Balt.

Robert William Rogers, Ph. D., Haverford, 1890, D. D., Wesleyan, 1894, Ph. D., Leipsic, 1895, Instructor, Haverford, 1887–90, Professor, Dickinson, 1890–93.—Prof. of Hebrew, Drew Theol. Sem.; Lecturer, Woman's Coll., Balt.

Henry Oliver Thompson, LL. B., Univ. of Md., 1890.—Atty. at Law, Balt.

Benjamin Simon William Tuska, A. M., Columbia, 1888, and LL. B., 1889.—Atty. at Law, N. Y.

Rev. Robert William Henry Weech. — Clergyman, Aberdeen, Md.

*Edward William Willis, M. D., Univ. of Md., 1889. **August* 7, 1893.

Henry Firey Wingert. — Atty. at Law, Hagerstown, Md.

Walter Bell Scaife (*extra ordinem*), Ph. D., Vienna, 1887.—Pittsburgh, Pa.

Albert Henry Smyth (*extra ordinem*).—Prof. of English, Central High School, Phila.; Lecturer, 1899–1900. (24)

1888.

Henry Harold Ballard, Ph. D., 1893, Instructor in Chemistry, Rose Polytech. Inst., 1893–96.—Science Master, Country School, Balt.

Edward Ambrose Bechtel, (F), Prof., Mt. Morris Coll., Ill., 1889–91, and Yankton Coll., 1891–92, Teacher, Dayton, O., 1892–93, Instructor, Northwestern Univ., 1893–97.—Asst. in Latin, Univ. of Chicago.

James William Black, Ph. D., 1891, Acting Prof., Georgetown Coll., Ky., 1891–92, Assoc. Prof., Oberlin, 1892–94.—Prof. of History, etc., Colby Univ.

Charles Pliny Brigham, Ph. D., 1891.— Greenport, Long Island.

*William Bromwell, Ph. D., 1895, Instructor in Chemistry, Pratt Inst., Brooklyn, 1896–98. **September* 30, 1898.

*Hamilton McFarland Brown. **May* 8, 1892.

Arthur Lee Browne. — Assoc. Prof. of Chemistry, Balt. Medical Coll.

Charles Hamilton Carey.—Baltimore.

John Broughton Daish, Instructor, Washington High School, 1888–89.—Washington.

Rev. William Levering Devries, (F), Ph. D., 1892, S. T. B., General Theol. Sem., N. Y., 1894.—Clergyman, Washington, D. C.

Gustav Edward Gieske, M. D., Phys. and Surg., Balt., 1891.—Catonsville, Md.

Raleigh Colston Gildersleeve.—Architect, N. Y.

Harris Hancock, Ph. D., Berlin, 1894.—Instructor in Mathematics, Univ. of Chicago.

Walter Jones, Ph. D., 1891, Acting Prof., Wittenberg Coll., 1891-92, Instructor and Prof., Purdue Univ., 1892-95.—Associate in Physiological Chemistry.

*William Augustine Jones, LL. B., Univ. of Ala., 1889. **February* 11, 1894.

Arthur Lincoln Lamb.—Science Master, Country School, Balt.

Charles Day Lanier.—Assistant Editor, *The Review of Reviews*, N. Y.

John Bright Macauley.—Washington, D. C.

*William Howard Miller, Instructor in Mathematics, Stanford Univ., 1891-93. **March* 2, 1893.

*George Neville Moore. **October* 29, 1889.

John Henry O'Donovan, M. D., Univ. of Md., 1891.—Baltimore.

Frank Eugene Reader.—Atty. at Law, New Brighton, Pa.

Louis Rettger.—Instructor, Terre Haute Normal School.

David Ellsworth Roberts.—Assistant, Art Dept., Library of Congress.

Lessing Rosenthal, LL. B., Northwestern Univ., 1891.—Atty. at Law, Chicago.

Charles Edmund Simon, M. D., Univ. of Md., 1890.—Physician, Balt.

Charles Kephart Swartz, Oberlin Theol. Sem., 1892.—Gettysburg, Pa.

Robert Melvin Tarleton, E. M., Lehigh, 1895.—Mining Engineer, Omaha, Neb.

Edward Lucas White, Assistant, Dartmouth, 1891-92.—Classical Instructor, Balt.

John White, Jr., (F), Ph. D., 1891, Assistant, Cornell, 1891-93.—Adjunct Prof. of Chemistry, Univ. of Neb.

Westel Woodbury Willoughby, (F), Ph. D., 1891, Acting Asst. Prof., Stanford Univ., 1894-95.—Assoc. Prof. of Political Science.

William Franklin Willoughby.—Statistical Expert, U. S. Dept. of Labor, Washington.

Charles Hiram Chapman, (*extra ordinem*), (F), Ph. D., 1890, Instructor and Associate, 1889-92, Prest., Univ. of Oregon, 1893-99.

Charles Collier Holden, (*extra ordinem*).—Instructor in Mod. Lang., Balt. (34)

1889.

Adolph Bernhard, Ph. D., Chicago, 1894, Asst. in Chemistry, Univ. of Chicago, 1893-98.

Hiram Horsburgh Bice, Prof., Austin Coll., 1890-92, and Blackburn Univ., 1892-93, Instructor, St. Joseph (Mo.) High School, 1893-96.—Classical Instructor, N. Y.

John Sedgewick Billings, M. D., Univ. of Pa., 1892.—Physician, N. Y.

Walton Bolgiano, M. D., Univ. of Pa., 1892.—Physician, Balt.

Theodore Cooke, Jr., M. D., Univ. of Md., 1891.—Physician, Balt.

Frank Barnum Culver.—Baltimore.

Richard Edward Edes, M. D., Harvard, 1895, Morgan Fellow, Harvard, 1890-91, Instructor, Mass. Inst. of Tech., 1892-93.—Physician, Dorchester, Mass.

Daniel Nathan Eisendrath, M. D., Chicago Med. Coll., 1891.—Physician, Chicago.

Albert Bernhardt Faust, (F), Ph. D., 1892, Instructor, 1894-96.—Assoc. Prof. of German, Wesleyan Univ.

Charles Lee Fulton, LL. B., Univ. of Md., 1892.—Atty. at Law, Balt.

Joseph Elliott Gilpin, Ph. D., 1892.—Associate in Chemistry.

Ross Granville Harrison, (F), Ph. D., 1894, M. D., Bonn, 1899, Bruce Fellow, 1894, Lecturer, Bryn Mawr, 1894-95, Instructor and Associate, 1896-99.—Assoc. Prof. of Anatomy.

George Newton Cressy Henschen.—Instructor, High School, Harrisburg, Pa.

William Sadler Hilles.—Baltimore.

William Isaac Hull, Ph. D., 1892.—Prof. of History, etc., Swarthmore Coll.

Harry Clary Jones, (F), Ph. D., 1892.—Associate in Physical Chemistry.

George Charles Keidel, (F), Ph. D., 1895.—Associate in Romance Lang.

Jesse William Lazear, M. D., Phys. and Surg. (N. Y.), 1892.—Asst. in Clinical Microscopy; Asst. Surgeon, U. S. Army.

Alfred Mann, M. D., Phys. and Surg. (N. Y.), 1892.—Asst. in Pathology, Univ. of Denver; Physician, Denver, Colo.

Charles Carroll Marden, Ph. D., 1894, Instructor, Univ. of Mich., 1890-91.—Assoc. Prof. of Romance Lang.

William Watson McCulloh, LL. B., Univ. of Md., 1892.—Physician, Balt.

Philip Randle Moale, Ph. D., 1894.—Chemist, Asheville, N. C.

Waldo Newcomer.—Baltimore.

Leonard Magruder Passano.—Instructor in Mathematics, Mass. Inst. of Tech.

Arthur Jackson Patek, M. D., Univ. of Pa., 1892.—Physician, Milwaukee, Wis.

William Peters Reeves, Ph. D., 1893, Assistant, Union Coll., 1895-97.—Prof. of English, Iowa State Univ.

Legh Wilber Reid, M. S., Princeton, 1896, Ph. D., Göttingen, 1899.—Instructor in Mathematics, Princeton.

Ralph Robinson, LL. B., Univ. of Md., 1891.—Atty. at Law, Balt.

Brantz Mayer Roszel, (F), Ph. D., 1896.—Instructor in Physics, Washington High School.

Rev. John George Sadtler, B. D., Gen. Theol. Sem., N. Y., 1893.—Clergyman, Balt.

Benjamin Bittinger Shreeves, LL. B., Univ. of Md., 1891.—Atty. at Law, Balt.

Robert Tunstall Taylor, M. D., Univ. of Va., 1891.—Physician, Balt.

Walter Herron Taylor, LL. B., Univ. of Va., 1891.—Atty. at Law, Norfolk, Va.

Winfield Scott Thomas, Professor, Chaffee Coll., 1889-90.—Classical Instructor, High School, Petaluma, Cal.

Harry Maas Ullmann, Ph. D., 1892, Honorary Fellow, Univ. of Chicago, 1892-93.—Instructor in Chemistry, Lehigh Univ.

Horatio Alanson Warren.—Teacher, Broad Brook, Conn. (36)

1890.

John McEwen Ames.—Detroit, Mich.

William Hand Browne, Jr., Instructor, Univ. of Neb., 1896-98.—Asst. Prof. of Electricity, Univ. of Ill.

James Edmund Bryan, Jr., Instructor, Mich. School of Mines, 1891-92, Principal, Houghton (Mich.) High School, 1892-93.—Supt. of Schools, Danville, Ill.

Rev. Ralph Erskine Carson, Allegheny Theol. Sem., 1895, Classical Instructor, Phila., 1890-92.—Sapphire, N. C.

*William Henry Carson, LL. B. and A. M., Harvard, 1894. **August* 12, 1899.

Sydney Million Cone, M. D., Univ. of Pa., 1893, Asst. in Surg. Pathology, 1896-1900.—Physician, Balt.

Vernon Cook, LL. B., Univ. of Md., 1892.—Atty. at Law, Balt.

Lucius Bradley Dorr, M. D., Univ. of Md., 1890.—Physician, Buffalo, N. Y.

Edwin Stanton Faust, Ph. D., Munich, 1893, Assistant, 1894-95.

Ned Arden Flood, A. M., Allegheny, 1898, Lecturer, Allegheny Coll., 1895-98.—Director, Chicago University Press.

Herbert Friedenwald.—Superintendent, Department of MSS., Library of Congress.

Fielding Hudson Garrison, M. D., Georgetown, 1893.—Physician, Washington.

Joseph Philip Gerry, Instructor, Washington High School, 1892-97.—Fellow and Instructor, Catholic Univ.

George William Gray, Ph. D., 1895.—Chemist, Standard Oil Co., Whiting, Ind.

Samuel Harris Guggenheimer.—Atty. at Law, N. Y.

Daniel Dorsey Guy.—Asst. Editor, *The Sun*, Balt.

James Chew Johnston, M. D., New York Univ., 1892.—Physician, N. Y.

Edward Parkin Keech, Jr., LL. B., Univ. of Md., 1892.—Atty. at Law, Balt.

Henry McElderry Knower, (F), Ph. D., 1896, Bruce Fellow, 1895-96, Instructor, Williams, 1896-97.—Instructor in Anatomy.

Berwick Bruce Lanier, M. D., Univ. of Md., 1892.—Physician, Balt.

Sylvan Hayes Lauchheimer, LL. B., Univ. of Md., 1892.—Atty. at Law, Balt.

Tilghman Brice Marden, M. D., Univ. of Md., 1892.—Physician, Balt.; Lecturer in Histology, Balt. Med. Coll.

George Clarence Morrison, LL. B., Univ. of Md., 1893.—Atty. at Law, Balt.

Arthur Alexander Oehm.—Instructor in Music, Balt.

*Arthur Rosewald Oppenheimer, M. D., Univ. of Pa., 1893. **April* 29, 1895.

Rev. Lyman Pierson Powell.—Clergyman, Lansdowne, Pa.

Rev. Samuel Guy Snowden, B. D., Drew Theol. Sem., 1893.—Clergyman, Moscow, Pa.

James Ernest Stokes, M. D., Univ. of Md., 1892.—Physician, Balt.

Isaac Lobe Straus, LL. B., Univ. of Md., 1892.—Atty. at Law, Balt.

Charles Snowden Watts, LL. B., Univ. of Md., 1893.—Atty. at Law, Balt.

William Wallace Whitelock, Ph. D., Munich, 1892.—New York.

William Whitridge.—Baltimore.

Adolph Grant Wolf.—Atty. at Law, Washington.

Frank Alfred Wolff, Jr., (F), Ph. D., 1893.—Chemist, Agricultural Dept., Washington.

James Homer Wright, M. D., Univ. of Md., 1892, A. M., Harvard, 1894, Fellow, Univ. of Pa., 1892-93.—Instructor in Pathology, Harvard; Pathologist in Chief, Mass. General Hospital, Boston.

Rev. Oscar Woodward Zeigler, Princeton Theol. Sem., 1893, A. M., Princeton, 1894. —Clergyman, Moscow Mills, Md.

Inazo Nitobe (Ota), (*extra ordinem*), Ph. D., Halle, 1890.—Prof. of Economics, etc., Imperial Coll. of Agric., Sapporo, Japan. (37)

1891.

Michael Alexander Agelasto, A. M., Columbia, 1893.—Norfolk, Va.

*Delano Ames, M. D., Univ. of Md., 1892. **March* 10, 1899.

Thomas Stockham Baker, (F), Ph. D., 1895. —Associate in German.

Randolph Barton, Jr., LL. B., Univ. of Md., 1893.—Atty. at Law, Balt.

Daniel Base, Ph. D., 1895.—Assoc. Prof. of Chemistry, Md. Coll. of Pharmacy.

William Bissing, M. E., Ohio State Univ., 1893.—Asst. Examiner, U. S. Patent Office.

Rev. Frederick Foye Briggs, Crozer Theol. Sem., 1894.—Clergyman, Philadelphia.

Shellman Baer Brown.—Railroad Supt., Annapolis, Md.

Thomas Morris Brown.—Cleveland, O.

Sidney Hand Browne. — Electrical Engineer, Balt.

Henry Andrews Bumstead, Ph. D., Yale, 1897.—Instructor in Physics, Yale.

Frank Kenneth Cameron, Ph. D., 1894, Fellow and Asst., Cornell, 1894-95, 1897-98, Asst. Prof., Catholic Univ., 1895-97.—Chemist, Agricultural Dept., Washington.

Malcolm John Cameron, A. M., St. Francis Xavier (N. Y.), 1892, LL. B. and A. M., Columbia, 1894.—Baltimore.

George Carey.—Teacher, New York City.

Rev. Neilson Poe Carey, S. T. B., General Theol. Sem., N. Y., 1897.—Clergyman, N. Y.

Abraham Cohen, (F), Ph. D., 1894.—Associate in Mathematics.

Harry Webster Cooke.—Atty. at Law, Balt.

Arthur Aaron Dembitz.—New York.

Augustus Kountze Detwiler, M. D., Univ. of Pa., 1894.—Physician, Omaha, Neb.

George W. Dobbin, M. D., Univ. of Md., 1894.—Associate in Obstetrics.

William Francis Galloway, (F), Ph. D., 1896.—Principal of Chatham Acad., Savannah, Ga.

George Henry Heitmuller, M. D., Univ. of Pa., 1894.—Physician, Washington.

Jacob H. Hollander, (F), Ph. D., 1894, Asst., Instructor, and Associate, 1894-99. —Assoc. Prof. of Finance.

Charles McHenry Howard, LL. B., Univ. of Md., 1893.—Atty. at Law, Balt.

Reid Hunt, (F), Ph. D., 1896, M. D., Coll. of Phys. and Surg. (Balt.), 1896, Tutor in Physiology, Columbia, 1896-98. — Associate in Pharmacology.

Charles William Leverett Johnson, (F), Ph. D., 1896.—Instructor in Greek, Yale.

Henry Webster Keating. — Instructor in English, etc., Duxbury, Mass.

*William Knower, LL. B., Univ. of Md., 1893. **December* 27, 1894.

George Lefevre, (F), Ph. D., 1896, Bruce Fellow, 1895-97, Assistant, 1897-98.—Prof. of Zoology, Univ. of Missouri.

George Milton Linthicum, M. D., Phys. and Surg. (Balt.), 1893.—Demonstrator, Woman's Med. Coll.; Physician, Balt.

Hugh Sisson Magruder, S. B., Columbia, 1898.—Architect, Balt.

Arthur William McDougall.—General Sec., Associated Charities, Orange, N. J.

Rev. Whitford L. McDowell.—Clergyman, Balt.

James Farnandis Mitchell, M. D., 1897.—Asst. Surgeon, J. H. Hospital.

Archibald Campbell Murray.—Baltimore.

Charles Fairbank Painter, M. D., Harvard, 1895, Asst., Harvard, 1897-99.—Physician, Boston.

Alfred Wilmot Pleasants.—Baltimore.

Alfred Magill Randolph, Jr. — Westinghouse Co., Pittsburg.

William Ferdinand Rittler.

Charles James Search, M. D., Univ. of Wooster, 1892. — Physician, Brooklyn, N. Y.

Alfred Jenkins Shriver, LL. B., Univ. of Md., 1893, A. M., Loyola, 1894.—Atty. at Law, Balt.

Rev. James Lawrenson Smiley.—Clergyman, Manila, P. I.

Samuel King Smith, LL. B., Univ. of Md., 1893.—Atty. at Law, Balt.

Rev. Daniel Gurden Stevens, Jr., (F), Ph. D., 1894, B. D., Crozer Theol. Sem., 1897.—Clergyman, Balt.

Charles Morton Stewart, Jr.—Baltimore.

William Stuart Symington, Jr., Ph. D., 1895, Asst. Prof., Stanford, 1894-95.—Prof. of Romance Lang., Amherst.

Matthew Möller Johnston Vea.—Stoughton, Wis.

Charles Joseph West.

Charles Francis Woods, Jr., Ph. D., 1897, Prof., Woman's Coll., Richmond, 1897-99.—Prof. of Modern Lang., Swarthmore.

Rev. Edward L. Watson.—Clergyman, Washington. (50)

1892.

Harry Adler, M. D., Univ. of Md., 1895.—Physician, Balt.

Newton Diehl Baker, Jr., LL. B., Washington and Lee, 1894.—Atty. at Law, Cleveland; Professor, Cleveland Law School.

Charles Gambrill Baldwin, LL. B., Univ. of Md., 1895.—Atty. at Law, Balt.

Edwin Bernhard Behrend, M. D., Georgetown, 1894.—Physician, Washington.

Rev. Lunsford Emory Bennett, B. D., Drew Theol. Sem., 1894.—Clergyman, Balt.

Arthur Fisher Bentley, (F), Ph. D., 1895, late Docent, Univ. of Chicago.—Journalist, Chicago.

George Edward Boynton.—Principal, Utica Academy, N. Y.

Thomas Richardson Brown, M. D., 1897.—Chief. of Med. Clinic, J. H. Dispensary; Physician, Balt.

Alfred Cookman Bryan, Ph. D., 1896.—Instructor in Economics, Washington High School.

Charles Weathers Bump.—Night Editor, *The Sun*, Balt.

William Calvin Chesnut, LL B., Univ. of Md., 1894.—Atty. at Law, Balt.

John Edwin Davis, LL. B., Univ. of Md., 1895.—Atty. at Law, Balt.

Henry Haywood Glassie.—Atty. at Law, Washington.

Leon Emanuel Greenbaum, LL. B., Univ. of Md., 1895.—Atty. at Law, Balt.

James Wesley Harvey, Jr., LL. B., Univ. of Md., 1893.—Baltimore.

William August Haussman, (F), Ph. D., 1895.—Instructor in German, High School, Allegheny, Pa.

Jose Lewis Hirsh, M. D., Univ. of Md., 1895.—Physician, Balt.; Demonstrator, Univ. of Md.

Morris James.—Classical Instructor, High School, Berkeley, Cal.

Hugh Judge Jewett, Jr., LL. B., Univ. of Md., 1894.—Atty. at Law, Balt.

Theodore Woolsey Johnson, M. E., Stevens Inst., 1896.—Prof. of Mechanical Eng., U. S. Naval Academy.

John Holladay Latané, Ph. D., 1895, Lecturer, 1898–99.—Prof. of History and Economics, Randolph-Macon Woman's Coll., Va.

Edward Jaquelin L'Engle.—Atty. at Law, Jacksonville, Fla.

Earl Perkins Lothrop, M. D., Niagara Univ., 1894.—Physician, Buffalo, N. Y.

Charles Whitney Mixter, A. M., Harvard, 1893, Ph. D., Harvard, 1897, Assistant in Economics, Harvard, 1896–98.

Walter Alexander Montgomery, Ph. D., 1899.—Instructor in Classics, Univ. of Arkansas.

James Flack Norris, (F), Ph. D., 1892.—Instructor in Chemistry, Mass. Inst. of Tech.

Thomas Dobbin Penniman, Ph. D., 1898.—Baltimore.

Charles William Peppler, (F), Ph. D., 1898.—Prof. of Greek, Emory Coll., Ga.

Albert Moore Reese.—University Scholar.

William Miller Roberts, M. D., Univ. of Md., 1897.—Physician, Balt.; Asst., J. H. Dispensary.

Abram Barr Snively, M. D., Univ. of Pa., 1895.—Physician, Waynesboro, Pa.

John Sargent Stearns, M. D., Georgetown, 1894.—Physician, Washington.

Charles Daniel Steenken, M. D., Phys. and Surg. (N. Y.), 1896.—Physician, Balt.

Leopold Stern.—Baltimore.

Lester Latham Stevens, LL. B., Univ. of Md., 1894.—Atty. at Law, Balt.

Gustav Lürman Stewart.—Baltimore.

Redmond Conyngham Stewart, LL. B., Univ. of Md., 1894.—Atty. at Law, Balt.; Member, Md. House of Delegates, 1900.

Arthur Bertram Turner, Instr. in Mathematics, Temple Coll., Phila., 1895–99.—Graduate Student.

Harold John Turner, Ph. D., 1899.—Science Instructor, Balt.

Richard Henry Wilson, Jr., Ph. D., 1898, Instructor, 1898–99.—Assoc. Prof. of Romance Lang., Univ. of Va. (40)

1893.

John Robert Abercrombie, M. D., Univ. of Md., 1895.—Physician, Balt.

Adolph Hall Ahrens.—Baltimore.

Theodore George Ahrens.—Baltimore.

Delaware Clayton Andre, LL. B., Univ. of Md., 1894.—Atty. at Law, Balt.

Frank Andrews.—Teacher, Rockville, Md.

William Steenbergen Blackford.—Baltimore.

George Stewart Brown, LL. B., Univ. of Md., 1895.—Atty. at Law, Balt.

William Lawrence Clark.—Baltimore.

Rev. Frank Angier Clarke, Professor, Keachie Coll., 1893–94.—Clergyman, Balt.

Edward Lowell Cox.—Chillicothe, O.

Noah Ernest Dorsey, (F), Ph. D., 1897.—Associate in Physics.
Howard Blake Dowell, LL. B., Univ. of Md., 1895.—Atty. at Law, Balt.
John Hooper Edmondson, LL. B., Univ. of Md., 1895.—Atty. at Law, Balt.
Henry Simpson Greenleaf, M. D., Univ. of Pa., 1895.—Physician, Berkeley, Cal.
Wilmot Griffiss.—Baltimore.
Louis Philip Hamburger, M. D., 1897.—Physician, Balt.; Asst. in Medicine.
John Hampden Hazelton.—Atty. at Law, Washington.
Lloyd Lowndes Jackson, Jr., LL. B., Univ. of Md., 1895.—Atty. at Law, Balt.
Millard Langfeld, M.D., 1898.—Prof. of Bacteriology, Creighton Med. Coll., and Physician, Omaha.
John Leypold Griffith Lee, LL. B., Univ. of Md., 1894.—Atty. at Law, Balt.
Jacob Moses Moses, LL. B., Univ. of Md., 1895.—Atty. at Law, Balt.; State Senator.
Clayland Mullikin, LL. B., Univ. of Md., 1893.—Atty. at Law, Easton, Md.
Charles Watson Newhall.—Mathematical Master, Shattuck School, Faribault, Minn.
Frederick Bogue Noyes.—Evanston, Ill.
Eugene Lindsay Opie, (F), M. D., 1897.—Asst. in Pathology.
Charles Bingham Penrose, Jr., LL. B., Univ. of Md., 1898.—Atty. at Law, Balt.
Clement Andariese Penrose, M. D., 1897.—Physician, Balt.
Charles Carroll Schenck.—Graduate Student.
Siegmund Bacharach Sonneborn.—Baltimore.
Morris Ames Soper, LL. B., Univ. of Md., 1895.—Atty. at Law, Balt.
Francis Edgar Sparks, Ph. D., 1896.—Archivist, Md. Hist. Society.
Alfred Earnest Speirs, Instructor, Lehigh Univ. Prep. School, 1893-94.—Chicago, Ill.
Hugo Paul Thieme, Ph. D., 1897.—Asst. Prof., Earlham Coll., 1897-98.—Instructor in French, Univ. of Mich.
Douglas Hamilton Thomas, Jr.—Architect, Balt.
Edwin Litchfield Turnbull.—Baltimore.
Rev. John Ogle Warfield, B. D., Episcopal Theol. Sem., Camb., 1896.—Clergyman, St. Michael's, Md.
Henry Skinner West, (F), Ph. D., 1899, Professor, Balt. City Coll., 1894-97.—Instructor in English.
Frederick Wallace Wilson.—Atty. at Law, The Dalles, Oregon.
Leo Wolfenstein.—Cleveland, O.
William Hamilton Kirk, (*extra ordinem*), (F), Ph. D., 1895.—Instructor in Latin, Vanderbilt. (40)

1894.

John Griffith Ames, Jr., Professor of English, Kenyon Coll., 1895-97.—Washington, D. C.
William Stevenson Baer, M. D., 1898.—Asst. Surgeon, J. H. Hospital.
Rev. Adolph Elhart Baker, Union Theol. Sem., Va., 1897.—Clergyman, Sykesville, Md.
Walter Baumgarten, M. D., Washington Univ., 1896, Asst. in Physiology, Harvard, 1897-98.—Physician, St. Louis, Mo.
Arthur Henry Baxter, Ph. D., 1898.—Mod. Lang. Master, Country School, Balt.
Ernest Julius Becker, Ph. D., 1898.—Asst. in Modern Lang., Woman's Coll., Richmond.
Thomas Pumphrey Benson, M. D., Univ. of Md., 1898.—Physician, Balt.
Thomas Fitz Patrick Cameron, Teacher, Funkstown, Md., 1896-97.—Baltimore.
Moses S. Cohen, LL. B., Univ. of Md., 1896.—Atty. at Law, Balt.
Bernard Milton Cone, A. M., Columbia, 1896, and LL. B., 1897.—Atty. at Law, N. Y.
Charles Angelo Conrad, LL. B., Univ. of Md., 1897.—Atty. at Law, Balt.
Walter Cox, M. D., Balt. Univ., 1898.—Asst. Surg., U. S. Marine Hosp. Service.
Percy Millard Dawson, (F), M. D., 1898.—Asst. in Physiology.
Eli Frank, LL. B., Univ. of Md., 1896.—Atty. at Law, Balt.
Nathaniel Edward Griffin, Ph. D., 1899.—Instructor in English, Iowa State Univ.
Benjamin Howell Griswold, Jr., LL. B., Univ. of Md., 1897.—Atty. at Law, Balt.
Richard Jordan Hancock, Jr.—Atty. at Law, Atlanta, Ga.
Stephen Cloud Harry.—Mathematical Instructor, Balt.
Thomas Wood Hastings, M. D., 1898.—Surgeon, Hospital Ship "Maine."
Rev. Conrad Augustine Hauser, Lancaster (Pa.) Theol. Sem., 1897.—Clergyman, Frostburg, Md.
Herman Frederick Krafft, LL. B., Columbia, 1898.—Classical Instructor, N. Y.
Harry Taylor Marshall, (F), M. D., 1898.—Fellow in Pathology.
George Stevens Maynard.—General Electric Co., Schenectady, N. Y.

Louis Wardlaw Miles, M. D., Univ. of Md., 1897.—University Scholar.
William Albert Nitze, (F), Ph. D., 1899.—Lecturer in Romance Lang., Columbia.
James Piper, LL. B., Univ. of Md., 1897.—Atty. at Law, Balt.
John Eugene Howard Post.—Baltimore.
John Hurst Purnell.—Baltimore.
Milton Reizenstein, Ph. D., 1897.—Asst. Agent, Baron Hirsch Foundation, N. Y.
Frank Roy Rutter, (F), Ph. D., 1897.—U. S. Geological Survey.
Simon H. Stein, LL. B., Univ. of Md., 1896.—Atty. at Law, Balt.
Emerson H. Strickler.—Chemist, Balt.
Joseph Pembroke Thom, Jr.—Baltimore.
Rev. George Harvey Trull, B. D., Princeton Theol. Sem., 1897.—Clergyman, Wilmington, Del.
Clinton Gambrill Tudor.—Civil Engineer, Sault Ste. Marie, Mich.
Malcolm Van Vechten Tyson, LL. B., Univ. of Md., 1897.—Atty. at Law, Balt.
Horace Scudder Uhler, Instructor, Northwestern Univ., 1896-97.—Science Master, University School, Balt.
George Talbot Whitfield.
Pere Lethrbury Wickes, Jr.—Atty. at Law, Balt.
*Chester Clark Wood. **September* 11, 1895.
James Curtis Ballagh, (*extra ordinem*), Ph. D., 1895.—Associate in History.

(41)

1895.

Wilbur Withrow Ballagh.—Tenafly, N. J.
William Sherman Bansemer, LL. B., Univ. of Md., 1897.—Atty. at Law, Balt.
Harry Bissing.—Electrician, New York.
Hanson Briscoe Black.—Atty. at Law, Charleston, W. Va.
Rev. Charles Henry Hardin Branch, B. D., Princeton Theol. Sem., 1898.—Clergyman, Collinsville, Ill.
George Dobbin Brown.—Graduate Student.
Lawrason Brown.—Student of Medicine.
Humphrey Warren Buckler, M. D., 1899.—House Officer, J. H. Hospital.
William Mack Chowning, S. B., Knox, 1894.—Student of Medicine.
Charles Bevan Clark, S. B., Mass. Inst. of Tech., 1897.—Asst. Engineer, Southern Railway, Washington, D. C.
Gilbert Abraham Coblens.—Baltimore.
Reuben Carll Foster, LL. B., Univ. of Md., 1897.—Atty. at Law, Balt.
Frank Taylor Fulton, S. B., Knox, 1894, M. D., 1899.—Interne, City Hospital, Boston.
James Daton Gallagher, M. D., 1899.—Physician, Lakeside Hospital, Cleveland.
George Herbert Gray.—Student of Architecture, N. Y.
Milton Daniel Greenbaum, LL. B., Univ. of Md., 1897.—Atty. at Law, Balt.
Roland Bridendall Harvey, LL. B., Univ. of Md., 1896.—Atty. at Law, Balt.
George Oscar James, (F), Ph. D., 1899, Instructor, Univ. of Utah, 1896-97.—Fellow by Courtesy.
Stuart Symington Janney.—Baltimore.
Marcus Kaufman, LL. B., Univ. of Md., 1897.—Atty. at Law, Balt.
Charles Alexander Kilvert.—Boston, Mass.
Ernest Pendleton Magruder, Supt. of Schools, Williamsport, Md., 1896-97.—Upper Marlboro.
Edward Spiller Oliver.—Student of Medicine.
John Donaldson Parker, LL. B., Univ. of Md., 1897.—Atty. at Law, Balt.
David Sterrett Pindell.—Electrician, Balt.
Jacob Hall Pleasants, Jr., M. D., 1899.—House Officer, J. H. Hospital.
Rev. Gustav Rudolph Poetter, Lancaster (Pa.) Theol. Sem., 1898.—Clergyman, Martinsburg, W. Va.
John Andrew Robinson, LL. B., Univ. of Md., 1897.—Atty at Law, Balt.
Sylvan Rosenheim, M. D., 1899.—Student, Berlin.
Charles Albert Savage.—Instructor in Latin, Univ. of Minnesota.
Edgar Randolph Strobel, M. D., 1899.—Externe, J. H. Hospital; Physician, Balt.
Robert McIlvaine Torrence.—Washington, Pa.
Campbell Easter Waters, Ph. D., 1899.—Fellow by Courtesy.
Arthur Charles Watkins.—Student, Union Theol. Seminary, N. Y.
Henry Abel Whitaker.—Atty. at Law, Belair, Md.
William Whitridge Williams, M. D., 1899.—Physician, Lakeside Hospital, Cleveland.
William Wingert, LL. B., Univ. of Md., 1897.—Atty. at Law, Hagerstown.

(37)

1896.

Thomas Sewell Adams, (F), Ph. D., 1899.—Statistician, U. S. Census Bureau.
Cornelius Beatty.—Science Instructor, Des Moines Coll.
Augustus Caesar Binswanger.—Atty. at Law, Balt.

Charles Edward Caspari, (F).—Fellow in Chemistry.
Clarence Carroll Clark.—Instructor in Modern Lang., Toledo, O.
Frank Wilbur Collier.
Charles Edward Diehl.—Teacher, Charlestown, W. Va.
William Reginald Dorsey.—Atty. at Law, Balt.
George Dyre Eldridge, Jr.—Student of Law, Columbia.
Rev. Albert Dale Gantz, B. D., Princeton Theol. Sem., 1899.—Clergyman, N. Y.
Alfred Dearing Harden.
William Faithful Hendrickson.—Student of Medicine.
*Frank Holmes Johnson. **June* 20, 1896.
Charles Harwood Knight.—Cleveland, O.
William Kurrelmeyer, (F), Ph. D., 1899.—Prof. of Modern Lang., Franklin and Marshall Coll.
Robert Lacy, S. B., Mass. Inst. of Tech., 1898.—Civil Engineer, Balt.
Henry Lanahan.—Prof. of Physics, Md. Agric. Coll.
Monroe Luchs.—Washington, D. C.
Arthur Webster Machen, Jr., LL. B., Harvard, 1899.—Atty. at Law, Balt.
Richard Elliott Marine.—Instructor, Michigan City (Ind.) High School.
Henry Pickering Parker.—Student of Medicine.
Albert Cabell Ritchie, LL. B., Univ. of Md., 1898.—Atty. at Law, Balt.
Louis Rosenbaum, LL. B., Univ. of Md., 1898.—Atty. at Law, Balt.
Glanville Yelsley Rusk.—Student of Medicine.
Laurence Frederick Schmeckebier, (F), Ph. D., 1899.—U. S. Geological Survey.
James Eustace Shaw, (F).—Fellow in Romance Lang.
St. George Leakin Sioussat, Ph. D., 1899.—Instructor in History, Smith Coll.
Alexander Raymond Stevens.—Student of Medicine.
Rev. John Wesley Richardson Sumwalt.—Clergyman, Balt.
John Hanson Thomas, LL. B., Univ. of Md., 1897.—Atty. at Law, Balt.
Charles Burnet Torsch.—Baltimore.
James McConky Trippe, LL. B., Univ. of Md., 1898.—Atty. at Law, Balt.
Charles William Waidner, (F), Ph. D., 1898, Asst., 1898-99.—Asst. in Physics, Williams Coll.
William Fisher Wallis.—Mathematical Instructor, Milton Acad., Balt.
Frederick Howard Warfield.—Teacher, Balt.
Rev. John Armistead Welbourn, A. M., Columbian, 1898, Va. Theol. Sem., 1899.—Missionary in Japan.
John Montgomery West.—Student of Medicine. (37)

1897.

Herbert Henry Adams, C. E., Mass. Inst. of Tech., 1899.—Civil Engineer, Detroit.
Frederick Henry Baetjer.—Student of Medicine.
Frank Ringgold Blake, (F).—Fellow in Semitic Lang.
Edward Lingan Bowlus.—Middletown, Md.
Charles Keyser Edmunds, Acting Prof. of Physics, Univ. of Utah, 1898-99.—U. S. Coast Survey, Washington.
Howard Main Gassman, Instructor, Ursinus Coll., 1897-99.—Graduate Student, Lehigh.
Neil Duncan Graham.—Medical Student.
Charles Saloman Guggenheimer.—Student, New York Law School.
Frank Arnold Hancock.—Graduate Student.
Landry Harwood.—Student of Law, Univ. of Md.
Eugene de Forest Heald, Jr.—Graduate Student.
Michael Ernest Jenkins.—Student of Law, Harvard.
Harry M. Kaufman.—Student of Medicine.
Rev. Frank Albert Killmon.—Clergyman, Balt.
John Edgar Knipp.—Student of Theology, Dayton, O.
Theodore Morgan Leary.—Baltimore.
William Strobel Levy.—Atty. at Law, Balt.
Warfield Theobald Longcope.—Student of Medicine.
Charles Edward Lyon.—Graduate Student.
Henry Clay McComas, Jr., A.M., Columbia, 1898.—Student, Union Theol. Sem., N. Y.
George Lovic Pierce Radcliffe.—Graduate Student.
Herbert Meredith Reese, (F).—Fellow in Physics.
Alexander Henry Schulz, Jr.—Baltimore.
John Frederick Schunck.—Student of Divinity, Philadelphia.
*Henry Plant Shuter. **October* 17, 1898.
Josiah Morris Slemons.—Student of Medicine.
Samuel Hamilton Spragins.—Baltimore.
Albert Louis Steinfeld.—Student of Medicine.

James McIlhany Thomson.—Washington, D. C.
Albert James Underhill.—Student of Medicine.
Louis Marshall Warfield.—Student of Medicine.
George William Warren.—Student of Medicine.
David Emrich Weglein.—Teacher, Balt.; Graduate Student.
Dudley Williams.—Student of Medicine.
Henry Merryman Wilson.—Concord, N. C.
Charles Knickerbacker Winne, Jr.—Student of Medicine. (36)

1898.

Zadok Marshall Ballard.—Baltimore.
Robert Ernest Belknap.—Yonkers, N. Y.
Odin Baltimore Bestor.—Baltimore.
Duncan Kenner Brent.—Student of Law, Univ. of Md.
Bennet Bernard Browne, Jr.—Student of Medicine.
George Miltenberger Clarke.—Student of Law, New York.
Henry Wireman Cook.—Student of Medicine.
Albert Charles Dieffenbach.—Student of Theology and Teacher, Lancaster, Pa.
Gustavus Charles Dohme.—Student of Medicine.
Ralph Duffy.—Student of Medicine.
James F. Ferguson.—Baltimore.
John Somerville Fischer.—Student of Medicine.
Thomas Fitzgerald, Jr.
Lawrence Hall Fowler.—Student of Architecture, Columbia.
William Willoughby Francis.—Student of Medicine.
William Cazenove Gardner.—Passaic, N. J.
Alexander Gordon, Jr.—Student of Law, Univ. of Md.
William Browne Hammond, Jr.—Student of Law, Univ. of Md.
Philip Warner Harry.—Graduate Student.
Leonard Keene Hirshberg.—Student of Medicine.
Conway Shaler Hodges.—Baltimore.
William Randle Hubner.—Student of Law, Univ. of Md.
Robert Henry Jones.—Student of Law, Univ. of Md.
Charles Wesley Kalb.—Teacher, Oakland Mills, Md.
James Alfred Kennard.—Student of Law, Univ. of Md.
Louis Charles Lehr.—Student of Medicine.
Henry John Lucke.—Graduate Student.
David Gregg McIntosh, Jr.—Student of Law, Univ. of Md.
Frank Oldham Miller.—Student of Medicine, Univ. of Md.
Raymond Durbin Miller.—Graduate Student.
Solomon Brenner Meyers.—Student of Law, Univ. of Md.
Harold Pender.—Graduate Student.
Thomas Lindley Pyle.—Graduate Student.
Vincent Adams Renouf.—Graduate Student, Harvard.
George Barr Scholl.—Student of Medicine.
Alexander Lazear Seth.—Baltimore.
Frederick Williamson Smith.—Student, Mass. Inst. of Tech.
Robert Marsden Smith.—Baltimore.
Victor Edgeworth Smith.—Graduate Student.
Charles Miner Stearns.—Student, Hartford Theol. Sem.
Leo D. Stein.
William Plunket Stewart.—Baltimore.
Albert Gad Stidman.—Graduate Student.
William Ellinger Straus.—Baltimore.
Joseph Nathan Ulman.—Student of Law, Columbia Univ.
John Boswell Whitehead.—Instructor in Electricity.
Powhatan Johnson Wooldridge.—Louisville, Ky.
Jacob Forney Young.—Baltimore.
Rev. Charles Smith Lewis (*extra ordinem*), S. T. B., Gen. Theol. Sem. (N. Y.), 1895.—Fellow, Gen. Theol. Seminary. (49)

1899.

James Robert Charlton Armstrong.—General Electric Co., Schenectady.
George Diuguid Davidson.—Instructor in Modern Lang., Shenandoah Valley Acad.
Henry Carter Downes.—Student of Law, Univ. of Md.
Ferdinand Colquhoun Fisher.—University Scholar.
Walter Melvin Fooks.—Baltimore.
Eddy Burke Fosnocht.—University Scholar.
Simon Walter Frank.—Student of Law, Univ. of Md.
John Calvin French.—Graduate Student, Harvard.
Charles Carter Gaddess.—Baltimore.
John Reed Gemmill.—Baltimore.
Harry Seliger Greenbaum.

Robert Harold Grimes.—Student of Law, Harvard.
Clarence Maurice Guggenheimer.—Student of Law, Harvard.
Hugh Sisson Hanna.—Graduate Student.
Stephen Paul Harwood.—Student of Law, Univ. of Md.
Louis Wardlaw Haskell, Jr.—Student of Medicine.
Talbot Dickson Jones.—Teacher, St. Denis, Md.
Leon Lewis Joyner.—Student of Law, Univ. of Md.
Karl Jungbluth, Jr.—Student of Law, Harvard.
John Albert Kalb.—Scranton, Pa.
John Hendricken King.-University Scholar.
George Wroth Knapp, Jr.—Student of Law, Harvard.
Walter Marshall Krager.—Graduate Student.
Herman Kurrelmeyer.—University Scholar.
Joshua Levering, Jr.—Baltimore.
James Morfit Mullen.
Philip Austen Murkland.—Baltimore.
Edward Livingston Palmer, Jr.—Baltimore.
John Howard Palmer.—Baltimore.
Charles Mallory Remsen.—Graduate Student.
Lawrence Anton Reymann.—Student of Law, Univ. of Va.
Edward Ayrault Robinson, Jr.—Student of Law, Univ. of Md.
George Canby Robinson.—Student of Medicine.
William Leavell Ross.—Baltimore.
Edwin Albert Spilman.—University Scholar.
René de M. Taveau.—Graduate Student.
Richard Henry Thomas.—Instructor in Chemistry, Phila.
Ottomar Siegmund Werber.—Baltimore. (38)

1900.

Henry Bogue.—Baltimore.
Rev. Lyttleton Morgan Chambers.—Clergyman, Pikesville, Md.
Albert Keidel.—Student of Medicine.
Maurice Lazenby.—Student of Medicine.
James Girvin Peters.—Baltimore. (5)

(Degrees will also be conferred at the close of the academic year in June.)
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11. Proficients in Applied Electricity.

(When the institution is not named, this university is to be understood. (F) indicates that the person has held a fellowship here. *—Died.)

1889.

Cary Talcott Hutchinson, (F), Ph. B., Washington Univ., 1886, Ph. D., 1889, Acting Assoc. Prof. of Electricity, 1898–99.—Consulting Engineer, N. Y.
Joseph Lee Jayne, U. S. Naval Acad., 1882.—Lieutenant, U. S. Navy; Bureau of Electricity, Navy Dept., Washington.
Henry Hazelhurst Wiegand, A. B., 1885.—Electrical Engineer, Balt.
Gilbert Wilkes, U. S. Naval Acad., 1881, Lecturer, Univ. of Wis., 1892–94.—Consulting Electrical Engineer, Detroit. (4)

1890.

William Julian Albert Bliss, A. B., Harvard, 1888, Ph. D., 1894, Assistant, 1890–91, 1895–97, Lecturer, 1894–95, Instructor, Woman's Coll., Balt., 1894–95.—Associate in Physics.
James Shaler Hodges, A. B., 1886.—Electrical Engineer, Balt. (2)

1892.

*Ezra Carl Breithaupt. **January* 27, 1897.
William Hand Browne, Jr., A. B., 1890, Instructor, Univ. of Neb., 1896–98.—Asst. Prof. of Electricity, Univ. of Ill.
*Henry Wakefield Frye, A. B., Colby, 1889. **June* 20, 1895.
George Henry Hutton, Jr.—Baltimore.
Robert Ernest Hutton.—Instructor in Electricity, Washington and Lee Univ.
Norman Crawford McPherson, A. B., Pa. Coll., 1889.—Hagerstown, Md.
Hugh Pattison.—Sprague Electric Co., N. Y.
Charles William Waidner, (F), A. B., 1896, Ph. D., 1898, Assistant, 1898–99.—Assistant in Physics, Williams Coll.
Arthur Judson Warner, A. B., Marietta, 1889. (9)

1893.

Louis Minturn Aspinwall.—Westinghouse Electric Co., Pittsburg.
Shellman Baer Brown, A. B., 1891.—Railroad Supt., Annapolis, Md.

Sidney Hand Browne, A. B., 1891.—Electrical Engineer, Balt.
Eugene Russell Carichoff, A. M., Washington and Lee, 1885.—Sprague Electric Co., N. Y.
Howard Waters Doughty.—Baltimore.
Harold Mills Dyar, Ph. B., Marietta, 1888. —Electrical Engineer, Marietta, O.
Irenus Kittredge Hamilton, S. B., Trinity (Conn.), 1891.—Chicago, Ill.
William Winder Handy, S. B., Haverford, 1891.—Electrical Engineer, Pittsburg.
Charles Roy McKay.—Sprague Electric Co., New York.
William Robinson Molinard.—Baltimore.
Arthur Lacy Reese. **March* 12, 1894.
Arthur John Rowland.—Professor of Electrical Engineering, Drexel Inst.
William Frederick Schulz.—Electrician, Balt.
Robert Isaac Todd.—Railroad Supt., Washington, D. C.
John Boswell Whitehead, Jr., A. B., 1898. —Instructor in Electricity. (15)

1894.

William Pierce Anderson, A. B., Harvard, 1892.
John Woodside Corning.—Electrician, Boston, Mass.
Lewis Warrington Cottman.—Mining Engineer, Florida.
Harvey Cavendish Darrell.—Baltimore.
Peter Conover Hains, Jr., U. S. Naval Acad., 1893.—Baltimore.
Stephen Quentin Hayes, A. B., Georgetown (D. C.), 1892.—Westinghouse Co., Pittsburg.
Douglas Alexander Howard, U. S. Military Acad., 1878.—Captain (retired), U. S. A.
Andrew Ellicott Maccoun. — Electrician, Carnegie Steel Co., Pittsburg.
James Warren McCrosky, S. B., Univ. of Neb., 1891.—Electrician, Buenos Ayres.
Henry Hutchinson Norris.—Instructor in Electricity, Cornell Univ.
Charles Edward Phelps, Jr.—Chief Engineer, Electrical Subways, Balt.
Alfred Magill Randolph, Jr., A. B., 1891.— Westinghouse Electric Co., Pittsburg.
Samuel Reber, U. S. Mil. Acad., 1886, First Lieut., U. S. A.—Instructor, Signal Service, U. S. Army.
Franklin Roberts.—Electrician, Balt.
Theodore Straus.—Baltimore.
John Saunders Taylor.—Atty. at Law, Norfolk, Va.
Frank McStocker Thomas.—Electrician Philadelphia.
Wallace Durant White.—Electrical Engineer, N. Y.
James Watts Young.—Electrician, N. Y. (19)

1895.

Harry Bissing, A. B., 1895.—Electrician, N. Y.
Byron Briggs Brackett, A. B., Syracuse, 1890, Ph. D., 1897, Instructor, Union Coll., 1897-98.—Instructor in Physics, High School, Washington, D. C.
Benjamin Harrison Branch.—General Electric Co., Schenectady.
Edson Fessenden Gallaudet, A. B., Yale, 1893, Ph. D., 1896.—Instructor in Physics, Yale.
George Henry Hill, A. B., Williamsport Dickinson Sem., 1891.—Sprague Electric Co., N. Y.
Alexander McIver, Jr., A. B., Univ. of N. C., 1890.—Sprague Electric Co., N. Y.
Joseph Mullen, Jr.
Charles Reutlinger.—Electrician, Balt.
John Jacob Rothermel, A. B., Franklin and Marshall, 1893.—Instructor in Science, High School, Hanover, Pa.
Frank Semple Wilcox, S. C. Mil. Acad., 1893. (10)

1896.

Matthew Maury Corbin.—General Electric Co., Schenectady.
Isidor Deutsch.—Electrician, Balt.
Hugh Miller Frazer, S. B., Ky. State, 1889. —Electrician, Lexington, Ky.
James Holdsworth Gordon, Jr.—Electrician, New York.
Horace Marshall Harriman, Jr.—Electrician, Balt.
Malcolm Westcott Hill.—Electrician, Balt.
George Harwood Hodges.—Electrician, N.Y.
Jasper Alan McCaskell, S. B., Loyola, 1895. —Student, Columbia Univ.
George Stevens Maynard, A. B., 1894.— General Electric Co., Schenectady.
Henry Todd Powell.—Electrician, Balt.
Charles Leonard Reeder.—Consulting Engineer, Balt.
Martin Schwab.—Electrician, Balt.
James Mowton Saunders Waring.—Electrician, Balt. (18)

1897.

Wyatt Hamilton Allen, Ph. B., Yale, 1896. —Electrician, N. Y.

Joseph Hockman Bowman, A. B., Franklin and Marshall, 1893, Instructor in Physics, Trinidad, Colo., 1897-98.—Electrical Engineer.

Walter Herman Eisenbrandt.—Electrician, Balt.

David Sterrett Pindell, A. B., 1895.—Electrician, Balt. (4)

1898.

George Edward Bartell.—Baltimore.

William Burke Brady, M. E., Lehigh, 1897.—Electrical Engineer, Brooklyn.

Edmund Frank, S. B., Rose Polytechnic, 1897.—General Electric Co., Schenectady.

William Schrofield Gorsuch, Jr.—Electrician, Balt.

Richard Cameron Haldeman, A. B., Yale, 1896.—Westinghouse Co., Pittsburg,

William Lemmon Hodges.—Electrician, Balt.

Ferdinand Brauns Keidel.—General Electric Co., Schenectady.

Bertram Motter Kershner.

Charles J. Spencer.—Electrician, Edison Co., Philadelphia. (9)

1899.

James Robert Charlton Armstrong, A. B., 1899.—General Electric Co., Schenectady.

Robert Buchanan Beall, S. B., Md. Agric., 1896.—General Electric Co., Schenectady.

Reinier Koller Beeuwkes.—General Electric Co., Schenectady.

William Trout Everett.

James William Swaine.—Baltimore. (5)

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University Scholars, 1899–1900.

Herbert Thompson Archibald, A. M.
William Chambers Coker, S. B.
Arthur Henry Ewing, A. B.
Ferdinand Colquhoun Fisher, A. B.
Eddy Burke Fosnocht, A. B.
Joseph Christie Whitney Frazer, M. S.
Norman Everett Gilbert, A. M.
Roscoe Guernsey, A. M.
Fred. Cole Hicks, Ph. B.
David Wilbur Horn, A. B.
John Hendricken King, A. B.
Herman Kurrelmeyer, A. B.
George Curtis Martin, S. B.
William Elejius Martin, A. M.
Charles Ranald McInnes, A. M.
Louis Wardlaw Miles, A. B.
Charles Alfred Mosemiller, A. B.
Albert Moore Reese, A. B.
Charles Sidney Smith, A. M.
Edwin Albert Spilman, A. B.

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12. Libraries.

1. The University Library numbers 93,000 bound volumes, selected with special reference to the instruction here given. It is arranged in several collections, of which these are the chief:

General Reference.	Oriental Languages.
Historical and Political.	Romance and Teutonic Languages.
Mathematical and Physical.	The McCoy Art Library.
Chemical.	Library of Southern History.
Biological.	Clinical Medicine.
Classical.	Physiology and Anatomy.

The reference library and reading room is open daily from 9 a. m. to 6 p. m.; the other rooms in accordance with special regulations.

The Library receives the publications of the leading scientific societies of the world and the chief literary and scientific periodicals. The whole number of serials received exceeds one thousand. This list is supplemented by those of the Peabody Institute and other institutions, so that the whole number of journals accessible (exclusive of ephemeral publications) exceeds twelve hundred. Important books are received by the library as soon as published, by purchase or by the courtesy of dealers.

2. The Peabody Library is a choice collection of books purchased since 1866. It is particularly full in academic transactions, long historical series, and costly illustrated books. It numbers 135,000 volumes, well bound, catalogued, and arranged. It is open daily, without charge, from 9 a. m. to 10.30 p. m.

3. The Enoch Pratt Free Library numbers 200,000 volumes, and is open daily, without charge.

4. The Maryland Historical Society Library contains 30,000 volumes of historical works, and is open daily.

5. Other libraries of Baltimore are the New Mercantile Library (67,000 volumes), the Bar Library (16,500 volumes), the Medical and Chirurgical Library (14,000 volumes), the Maryland Episcopal Library (25,000 volumes), and the Library of the Maryland Institute (23,000 volumes).

6. Washington is so near that its museums and libraries may be easily visited. Among the chief institutions of interest to students are these:

The Smithsonian Institution and National Museum.
The Library of Congress.
The Army Medical and Surgical Museum and Library.
The U. S. Coast and Geodetic Survey.
The U. S. Geological Survey.
The U. S. Naval Observatory.
The Libraries of the Departments and Bureaus.
The Corcoran Art Gallery.

13. Regulations of the Treasurer's Office.

I. The Treasurer's Office is open daily from 9 a. m. to 4.15 p. m.

II. All bills should be presented at that place, endorsed as correct by the person under whose authority the expense has been incurred.

III. No member of the Academic Staff is allowed to incur a bill in the name of the University, unless authority is given for the same by the Trustees, in advance—either as an item in the annual budget, or as a special appropriation. Blank forms of application are provided for special requisitions.

IV. Orders for books and apparatus to be imported from Europe will not be considered authorized unless countersigned by the President or the Treasurer of the University.

All goods must be consigned to and addressed "Johns Hopkins University, Baltimore, Md." Goods for other parties (societies or individuals) must not be included in the University cases. Invoices, sworn to before the U. S. Consul, must be sent by mail, and a duplicate invoice by the following mail, both addressed to the Johns Hopkins University.

Unless otherwise ordered, goods from Europe should be sent as follows:

From Germany by the North German Lloyd steamers sailing for Baltimore from Bremen; from England by steamship lines from Liverpool to Baltimore; from France and Italy, via Havre and Liverpool.

Printed copies of instructions to shippers, which can be obtained at the Treasurer's Office, should in all cases be enclosed with the orders.

V. The Treasurer's Office will make purchases, at wholesale rates, of supplies which are required for the current needs of the University.

VI. Such pass books as are authorized by the Treasurer should be presented for balance and settlement every month.

VII. The wages of all persons employed by the University will be paid at the Treasurer's Office.

VIII. When C. O. D. packages are expected, previous arrangements should be made for their reception.

IX. Outlays made for individuals (express parcels, postage, telegraph messages, etc.) should be settled at once.

X. An annual allowance is made by the Trustees, in the budget, for such expenses as they approve, and in deciding on the items they are governed by a consideration of the general interests of the University, as well as by the needs of special branches of instruction. Balances to the debit or credit of any account are carried forward to the new account, at the opening of each financial year (September 1). A statement of the amount of the balance and of any additional appropriation will be communicated to the parties severally interested, if requested, after the Trustees' meeting in October.

FRANCIS WHITE,
Treasurer.

14. Publications issued at the Johns Hopkins University.

I. American Journal of Mathematics.

This journal was commenced in 1878, under the editorial direction of Professor Sylvester. Professor Simon Newcomb is now the Editor. Twenty-one volumes of about 400 pages each have been issued, and the twenty-second is in progress. It appears quarterly. Subscription $5 per year. Single numbers $1.50. The set of twenty-two volumes will be sold for one hundred and ten dollars.

II. American Chemical Journal.

This journal was commenced in 1879, with Professor Remsen as Editor. Twenty-two volumes of about 450 pages each have been issued, and the twenty-third is in progress. This journal appears monthly. Two volumes of six numbers and of about 500 pages each are issued yearly. Subscription $5 per year. Single numbers 50 cents.

III. American Journal of Philology.

The publication of this journal commenced in 1880, under the editorial direction of Professor Gildersleeve. Twenty volumes of about 500 pages each have been issued, and the twenty-first is in progress. It appears four times yearly. Subscription $3 per volume. Single numbers $1. The set of twenty volumes will be sold for sixty dollars.

IV. Studies from the Biological Laboratory.

The publication of these papers commenced in 1879, under the direction of Professor Martin, with the assistance of Professor W. K. Brooks. Five volumes of about 500 pages, octavo, and 40 plates each, have been issued.

V. Studies in Historical and Political Science.

The publication of these papers was begun in 1882, under the editorial direction of Professor H. B. Adams. Seventeen series are now completed and the eighteenth series is in progress. Twenty-one extra volumes have also been issued. Subscription $3 per volume. The set of seventeen regular series will be sold for fifty-one dollars.

VI. Memoirs from the Biological Laboratory.

These monographs are issued under the editorial direction of Professor W. K. Brooks. Volume IV is now complete. Price for the set of four volumes thirty dollars.

VII. Johns Hopkins University Circulars.

The publication of these Circulars began in December, 1879, and 143 numbers have since been issued. Subscription $1.00 per year.

VIII. Contributions to Assyriology and Comparative Semitic Philology.

The publication of this journal was begun in 1889. Professor Paul Haupt, of the Johns Hopkins University, and Professor Friedrich Delitzsch, of the University of Breslau, are the editors. Volume IV is in progress. The set of three volumes will be sold for $22.50.

IX. The Johns Hopkins Hospital Reports.

These reports are edited by the Faculty of the Johns Hopkins Medical School and published for the Johns Hopkins Hospital. Their publication was begun in 1890. Volume VIII is in progress. Price $5 per volume. The set of eight volumes will be sold for forty dollars.

X. The Johns Hopkins Hospital Bulletin.

The publication of these Bulletins began in 1889. They are published monthly. Volume XI is in progress. Subscription $1.00 per year. The set of ten volumes will be sold for twenty dollars.

XI. Modern Language Notes.

This journal is edited by Professor A. M. Elliott and his associates in the Modern Language Department. It appears monthly. The fifteenth volume is in progress. Price $1.50 per year.

XII. The Journal of Experimental Medicine.

The publication of this journal was begun in 1896. Professor W. H. Welch is the principal editor. It appears six times yearly. Volume V is in progress. Price $5 per year. The set of four volumes will be sold for twenty-five dollars.

XIII. American Journal of Insanity.

This journal is under the direction of Professor Henry M. Hurd as editor in chief. It appears quarterly. Volume IV is in progress. Subscription $5 per year.

XIV. Terrestrial Magnetism and Atmospheric Electricity.

This journal is edited by Dr. L. A. Bauer. It appears quarterly. Volume V is in progress. Subscription $2.50 per year.

XV. Reports of the Maryland Geological Survey.

These reports are under the editorial direction of Professor W. B. Clark, Director of the Survey.

XVI. Reports of the Maryland Weather Service.

These reports are under the direction of Professor William B. Clark, Director of the Service.

XVII. Annual Report,

Presented by the President to the Board of Trustees, reviewing the operations of the University during the past academic year.

XVIII. Annual Register,

Giving the list of the officers and students and containing detailed statements as to the regulations and work of the University.

Announcements of the Graduate, Collegiate, and Medical Courses of Instruction are issued yearly and will be sent on application.

Some of the principal separate publications issued by the Johns Hopkins Press are:

PHOTOGRAPHS OF THE NORMAL SOLAR SPECTRUM. By Professor H. A. Rowland. Set of ten plates, $20.

These consist of ten plates, each 3x2 feet, containing two strips of the spectrum, and extending from wave-length 3000 to wave-length 6950. Concave gratings having 10,000 to 20,000 lines to the inch, made in the physical laboratory of the University, were used in making these photographs.

A NEW CRITICAL EDITION OF THE HEBREW TEXT OF THE OLD TESTAMENT. Now in progress. Prospectus on application.

A COMPLETE FACSIMILE EDITION OF THE TEACHING OF THE APOSTLES. 110 pages quarto and 10 plates. $5.00.

STUDIES IN LOGIC. 210 pages, 12mo. $2.00.

REPRODUCTION OF A SYRIAC MANUSCRIPT OF THE ANTILEGOMENA EPISTLES. 17 phototype pages. $3.00.

EMBRYOLOGY OF INSECTS AND ARACHNIDS. By Adam T. Bruce, 50 pages, 4to, and 7 plates. $3.00.

TOPOGRAPHICAL AND GEOLOGICAL MAPS OF THE VICINITY OF BALTIMORE. $1.00 each.

THE CONSTITUTION OF THE EMPIRE OF JAPAN. 50 cents.

DESCRIPTION OF THE JOHNS HOPKINS HOSPITAL. 116 pages, 4to, and 56 plates. $7.50.

SELECTIONS FROM THE EARLY SCOTTISH POETS. By William Hand Browne. $1.25.

A MONOGRAPH ON THE GENUS SALPA. By W. K. Brooks. 400 pages and 57 plates. $7.50.

THE FINANCIAL HISTORY OF BALTIMORE. By J. H. Hollander. 400 pages, 8vo. $2.00.

CUBA AND INTERNATIONAL RELATIONS. By J. M. Callahan. 503 pages, 8vo. $3.00.

THE DIPLOMATIC RELATIONS BETWEEN THE UNITED STATES AND SPANISH-AMERICA. By John H. Latané. (The Albert Shaw lectures on Diplomatic History). In press. 294 pages, 12mo. $1.50.

STUDIES IN TYPHOID FEVER. By William Osler and others. 481 pages, 8vo. $3.00.

THE MALARIAL FEVERS OF BALTIMORE. By W. S. Thayer and others. 280 pages, 8vo. $2.75.

STUDIES IN STATE TAXATION WITH PARTICULAR REFERENCE TO THE SOUTHERN STATES. 254 pages, 8vo. $1.25.

HISTORY OF COÖPERATION IN THE UNITED STATES. Edited by R. T. Ely. 540 pages, 8vo. $3.50.

BIBLIOGRAPHIA HOPKINSIENSIS. A list of publications by members of the University. Now in progress.

DISSERTATIONS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY IN THE JOHNS HOPKINS UNIVERSITY.

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15. SCIENTIFIC SOCIETIES.

1. The Scientific Association, meeting under the presidency of Professor Remsen.

2. The Philological Association, meeting under the presidency of Professor Gildersleeve.

3. The Historical and Political Science Association, of which Professor Adams is the director.

4. A Naturalists' Field Club, which makes weekly excursions during the spring and autumn and holds monthly meetings for the presentation and discussion of papers.

There are also companies which meet weekly in the laboratories for the reading of the scientific journals, and seminaries in several departments of study.

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16. HISTORICAL STATEMENT.

THE JOHNS HOPKINS UNIVERSITY was founded by the munificence of a citizen of Baltimore, Johns Hopkins, who bequeathed the most of his large estate for the establishment of a University and a Hospital.

1867, August 24.	Incorporation of the Johns Hopkins University.
1870, June 13.	Organization of the Board of Trustees.
1873, December 24.	Death of the Founder [born May 19, 1795].
1874, February 6.	First Business Meeting of the Trustees.
1874, December 30.	Election of a President of the University.
1876, February 22.	Inauguration of the President.
1876, October 3.	Instruction of Students began.
1886, April 26.	Celebration of the Tenth Anniversary.
1889, May 7.	Opening of the Johns Hopkins Hospital.
1893, October 1.	Opening of the Johns Hopkins Medical School.

CALENDAR, 1900–1901.

The University Examination of Undergraduates begins Friday, June 1, 1900.

Commencement Day falls on the second Tuesday in June: in 1900 on June 12; in 1901 on June 11.

The first Examinations for Admission and Matriculation begin Wednesday, June 13, 1900, at 9 a. m.

The second Examinations begin Wednesday, September 26, 1900, at 9 a. m.

The instruction of classes in all departments (graduate, undergraduate, and medical) begins on the first Tuesday in October: in 1900, on October 2.

Thanksgiving Day falls on Thursday, November 29, 1900.

The Christmas Recess begins Friday evening, December 21, 1900. Exercises will be resumed Wednesday morning, January 2, 1901.

Commemoration Day falls on Friday, February 22, 1901.

The Spring Recess begins Thursday morning, April 4, 1901, and closes Wednesday evening, April 10.

MATRICULATION EXAMINATIONS, 1900.

Wednesday, June 13, *and September* 26.

9–10 a. m.—History.
10–11 a. m.—Science.
11 a. m.–1 p. m.—English.
3–6 p. m.—Latin.

Thursday, June 14, *and September* 27.

9–11 a. m.—Arithmetic and Algebra.
11 a. m.–12 m.—French and German (*elements*).
3–6 p. m.—Plane and Solid Geometry.

Friday, June 15, *and September* 28.

9–10.30 a. m.—Trigonometry.
10.30 a. m.–12 m.—Analytic Geometry.
3–6 p. m.—Greek.
3–6 p. m.—French and German (*minor courses*).
3–4 p. m.—French (*elements*).

STATEMENTS IN RESPECT TO THE COURSES OF INSTRUCTION.

The Johns Hopkins University offers instruction to students in the following classes:

1. College graduates and other advanced scholars, who may proceed to the degree of Doctor of Philosophy, in literature or science, or remain for longer or shorter periods in such of the various seminaries and laboratories as they may choose.
2. Undergraduate students looking forward to the degree of Bachelor of Arts and following any one of seven parallel groups of study.
3. Candidates for the degree of Doctor of Medicine, for whom a four years' course is provided.
4. Doctors of Medicine desiring to pursue certain post-graduate courses, which are annually announced.
5. Students who have taken no degree and are not looking forward to a degree, but who desire to avail themselves for a brief period of the opportunities here afforded.

FACULTY OF PHILOSOPHY.

Advanced and graduate students are received with or without reference to their being candidates for a degree, and they are permitted to attend such lectures and exercises as they may individually select. On entering the University they are expected to present their diplomas and certificates from the institutions with which they have been connected, and also letters of introduction. They are not examined for admission by the University, but each instructor satisfies himself of the

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attainments of those who wish to follow his guidance, before admitting them to his classes.

The professors are free to give personal counsel and instruction to those who seek it; books and instruments adapted to investigations and advanced work have been liberally provided; the system of fellowships secures the presence of twenty special students imbued with the university spirit, most of them looking forward to academic careers; seminaries limited to a few advanced students have been organized in various subjects; societies devoted to philology, to mathematical, physical, and natural science, and to history and political science, afford opportunities for the presentation of memoirs and original communications, and there are also clubs for the reading and discussion of philological, biological, physical, and chemical papers; during the year courses of lectures are given by resident and non-resident professors on topics to which they have given special attention; the libraries of the Peabody Institute and Maryland Historical Society, founded for the advantage of scholars, are easily accessible; the issuing, under the auspices of the Trustees, of publications devoted to mathematics, chemistry, philology, biology, the modern languages, and history brings the University into advantageous connection with other foundations; and the University reading-room, which is constantly open, is liberally supplied with new and with standard books and with the literary and scientific journals of this and other lands.

Instruction is carried on in the different departments by methods which vary with the nature of the subject and the character and proficiency of the scholars; but in all alike the aim is the same,—that, while the student is becoming familiar with the work prosecuted and the results attained elsewhere, and is adding to his general intellectual culture, he may be encouraged to become himself an independent and original investigator in his chosen field of labor. Within reasonable limits the University will provide such books, apparatus, and material as may be requisite for this purpose.

The principal subjects in which advanced instruction is now provided are these:

Greek.
Latin.
Sanskrit and Comparative Philology.
Semitic Languages.
Anglo-Saxon and English.
German.
Romance Languages.
History.
Political Economy.
Comparative Politics.
History of Philosophy.
Mathematics.
Physics.
Chemistry.
Geology, Mineralogy, and Petrography.
Biology, including Zoölogy, Physiology, and Botany.
Pathology.

Greek.

The graduate instruction in Greek is directed by Professor Gildersleeve, in connection with the Greek Seminary, which consists of the Director, Fellows, and Scholars, and such advanced students as have satisfied the director of their fitness for an active participation in the work. All graduate students, however, may have the privilege of attending the Seminary exercises.

Each regular member is required to take his turn in the work of the seminary, and special fields of research are assigned according to progress or bent.

The cycle which has been followed for some years is made up of the Greek Historians, the Attic Orators, Plato, Aristophanes. For example:

1896–97. Attic Orators.
1897–98. Plato.
1898–99. Aristophanes.
1899–1900. Greek Historiography.

The methods followed have been described in successive annual reports, which may readily be consulted.

The work in the Seminary during the present year was concentrated on Aristophanes; for the next year the centre of work will be transferred to the Attic Orators.

In addition to the work of the Seminary (two meetings a week), courses of lectures are given by the Director, by Associate Professor Miller, and by other qualified persons.

Undergraduate students who select the classical group of studies are required to follow the class-work in Greek, four hours weekly through two years. The texts read vary from year to year, including selections from poets, historians, and orators. Exercises in

Greek composition and in reading at sight are likewise required. To extend the acquaintance of the student with Greek literature, he is obliged to read by himself certain prescribed authors, and to pass an examination upon them. An elective course of two hours a week for a half-year is also provided. The instruction of the undergraduates in Greek is conducted chiefly by Associate Professor Spieker.

The American Journal of Philology, edited by Professor Gildersleeve, has completed its twentieth volume, and the twenty-first is now in progress.

Latin.

Instruction in Latin is given on a plan similar to that already mentioned as followed in the courses in Greek. The advanced work proceeds through the organization of a Seminary, of which Associate Professor Smith is the Director. The instruction has two distinct ends in view. It aims first to give students a wider and more accurate knowledge of the Latin language and literature than can be secured in the ordinary college course, so that they may become more efficient teachers; and, secondly, to train them in the methods of scientific research, so that they may become independent investigators. The most important instrument of training is the Latin Seminary, which meets twice a week. Each year some author or group of authors in a given department of literature is made the centre of work. Critical methods are taught, interpretations are prepared by members of the Seminary in turn, and papers are read by them containing the results of various special investigations suggested by the taste and proficiency of each. The subjects treated during the last four years have been as follows:

1896–97. The Roman Epic, especially Vergil.
1897–98. The Roman Drama, especially Plautus and Terence.
1898–99. Cicero's Orations and Letters.
1899–1900. The Roman Satire, especially Horace and Juvenal.

Courses of lectures are also regularly given by the Director of the Seminary and from time to time by other qualified persons. For example, in 1899–1900, Associate Professor Smith lectured

on the Roman Satire once a week throughout the year, and in connection gave a rapid interpretation of the fragments of Ennius, Lucilius, and Varro. A Journal Club also met every two weeks to report and discuss recent philological publications in the field of Latin and Greek. A class, meeting once a week, read selections from Petronius during the first half-year, and during the second half-year, Seneca's Apocolocyntosis and selections from the Metamorphoses of Apuleius.

Dr. H. L. Wilson lectured once a week during the first half-year on Latin Palaeography, and during the second half-year on Historical Latin Grammar.

The undergraduate work varies somewhat according to the group of studies elected. The authors read differ year by year, but are so chosen that the student may become acquainted with the different departments of the literature. His work in the classroom must be supplemented by a prescribed course of reading which he follows privately and on which he undergoes examination. Latin composition and sight-reading form a part of the course. An elective course of two hours a week for a half-year and a course in Roman literature one hour a week throughout one year are also provided. Dr. H. L. Wilson and Dr. M. C. Sutphen assist in this work.

Sanskrit and Comparative Philology.

Courses of instruction, under the direction of Professor Bloomfield, with the assistance of the Fellow or Scholar in Sanskrit, are provided in the Indo-Iranian languages (Vedic and Classical Sanskrit, Pāli-Prākrit, Avestan or Zend, and old Persian), in comparative grammar of the Indo-European languages, in historical ethnology of the Indo-European peoples, in general linguistic science. During the sessions of 1897–98 courses in the Lithuanian language and literature were given for the first time, and instruction in one or the other of the ancient languages of the Balto-Slavic (Lithu-Slavic) family may be hereafter expected as a regular feature of the work of the department.

These instructions aim to meet the wants of those who wish to devote themselves to the study of these branches exclusively

and for their own sake, *i. e.*, those who wish to become specialists in Sanskrit philology, or comparative philology; and also the wants of students of languages in general, who wish to obtain a broader linguistic basis for special studies in other departments of philology.

The advanced work aims especially to meet the wants of those who wish to make Indian philology or comparative philology their special study. Instruction is given by practical exercises, lectures, seminary work, and, where possible, the use of native Sanskrit manuscripts. The seminary is furnished with a carefully selected library; and approximately complete sets of the Oriental journals, as well as the journals in comparative philology, are freely accessible in the main library.

A prolonged course in Sanskrit, involving two lectures a week during two years and attendance in the Vedic Seminary for a half-year (one hour a week), is planned so as to furnish a good knowledge of classical Sanskrit, and to include an introduction into the dialect of the Vedas. This amount of work represents material sufficient for the first subsidiary subject for the degree of Doctor of Philosophy. A course in the same study for one and a half years, involving two hours a week, is the amount required for a second subsidiary subject leading to the same degree.

A synopsis of the courses offered during recent years may be presented under five heads:

I. Courses in the general principles of comparative philology or linguistic science, and on special chapters thereof; lectures on ethnology.

II. Courses in the general comparative grammar of the Indo-European languages; comparative grammar of Sanskrit and Avestan; comparative study of Greek accent; comparative study of Greek, Latin, Sanskrit, and Teutonic, including vocalism, consonantism, noun-formation, and inflections.

III. The Vedic, Sanskrit, and Pāli-Prākrit dialects; Rig-Veda; Atharva-Veda; literature of the Brāhmaṇas and Upaniṣads. The law-books of Manu and Yājñavalkya; the drama Çakuntala and introduction into Prākrit; Hitopadeça, Kathāsaritsāgara, and Nala. Sanskrit grammar and prose composition.

IV. The Avestan language and the literature of the Avesta.

V. Introduction to the Lithuanian language and literature.

Oriental Seminary.

In the Oriental Seminary, of which Professor Haupt is director, both introductory and advanced instruction is provided in Oriental history and archæology, as well as in the principal Semitic languages, *viz.*, Hebrew (both Biblical and post-Biblical), Biblical Aramaic, Syriac, Arabic (both classical and modern), Ethiopic, Assyrian, etc.; also in Sumerian, Egyptian, etc. In the organization adopted in 1883, a course of three years was arranged. The centre of work is the Old Testament, special attention being given to the critical study of Biblical texts and the cuneiform inscriptions bearing on the Scriptures. Professor Haupt is assisted by Associate Professor Johnston and other competent instructors.

The various courses are adapted to the requirements of four classes of students, namely: (*a*) students of theology wishing to obtain a thorough acquaintance with the sacred tongue and its sister idioms as a means of elucidating Scripture and problems of the comparative history of religion; (*b*) students of linguistics intending to make comparative grammar of the Semitic languages their specialty; (*c*) students of Oriental history and archæology desirous of drawing directly from the original sources; (*d*) persons looking for instruction in the living Oriental languages (as modern Arabic, Turkish, Persian, Amharic, Malay, etc.), for practical purposes.

In these various courses, the seminary method is followed throughout, the student being from the first brought face to face with the several idioms, without long theoretical introductions. Stress is laid on a thorough grammatical training, imparted in connection with the minute philological analysis of some selected text in the respective languages, or by written exercises in translating from English into Hebrew and Arabic, or from Hebrew into Assyrian, etc., printed grammars serving only for occasional reference.

A room has been set apart containing a well-equipped working library for all the branches of Oriental research (including the library of the late Professor A. Dillmann, of Berlin, and the Strouse Rabbinical Library), and some advanced students are usually present to help in the preparation for the recitations conducted by the Director of the Seminary, and to furnish any other aid that may be desired.

English.

The instruction in English is given by Dr. James W. Bright, Professor of English Philology, Dr. William Hand Browne, Professor of English Literature, and Dr. Herbert Eveleth Greene, Collegiate Professor of English. Graduate and collegiate courses are provided in conformity with the principles followed in the other language departments. Advanced students are instructed in the technical results of linguistic and literary science, and trained in the processes of original investigation. The college work is arranged upon a plan that prescribes for every student a systematic training in English Composition and in a critical study of standard prose. This is followed by an introductory course in English literature which is required of all students except those pursuing the studies of the Modern Language Group (Group VII); and a more advanced course is provided for those who may wish to continue the subject. The work of students in the Modern Language Group includes, first, a general survey of the history of English Literature from the earliest times to the present day. After this preliminary course, more definite and minute study is bestowed upon prolonged courses that centre in the most significant periods of that history: these are courses in Anglo-Saxon; in the language and literature of the Middle English Period, and especially Chaucer and his contemporaries; in the Early Scottish Poets; in the Elizabethan period; and in the chief writers of the eighteenth and nineteenth centuries.

Graduate Courses.

The advanced courses in English are so arranged as to enable a student, in three or four consecutive years, to study with precision all the important departments of Grammar and of Literature. Instruction is imparted by lectures, by freer conferences, by the methods of the Seminary, and by class room recitation. The Seminary (four hours a week) constitutes the chief organ of instruction and research. It supplies means for the inculcation of what is presented in the lectures, and for organized and prolonged concentration of effort on selected subjects. Usually the work of the Seminary centres each half-year in a different period

of the literature, ranging from Anglo-Saxon to the present century. The literature of the period studied is investigated as to its sources, the history of its forms and traditions, and its artistic value; and linguistically the period is studied in its relation to the history of the language. The members of the Seminary also meet as a Journal Club (fortnightly) chiefly for reviewing the current philological (linguistic and literary) periodicals, and recently published books and monographs. As supplementing the lectures and the Seminary, classes are organized for special training in textual criticism. There is also in alternate years an advanced course in the History and Theory of Rhetoric by Professor Greene, and annually a course of lectures on some department of English literature by Professor Browne. Weekly conferences and informal lectures furnish an opportunity for the discussion of many topics not provided for in the regular courses of the year. This hour is also in part occupied by lectures given by the students, who may thus acquire experience in the more formal presentation of the results of special study.

College Courses.

1. *Rhetoric and English Composition.* In this course, which is required of all undergraduates, the principles of good writing are inculcated. The use of text-books is supplemented by lectures and discussions, by weekly practice in the writing of short papers, a few of which are read and criticised in the class-room, and by the writing of longer papers, which are read and criticised privately with the writers. During the first half-year the study is directed to the elements of style,—the word, the sentence, and the paragraph. The weekly practice in writing is combined with an examination of the usage of standard writers. During the second half-year the various forms of composition—description, narration, exposition, and argument—are studied and practiced; the work also includes a critical study of standard prose in its various forms.

2. *English Literature.* The course in Rhetoric is followed by a prescribed course in English literature; and an additional course, which is elective, is provided for those who may wish to continue the study. These courses are for undergraduate students

in Groups I–VI,—those who are not making a special study of the subject, but who wish such acquaintance with it as may be regarded a necessary part of a liberal education. The aim of the instruction in these courses is to give the student an outline history of English Literature, to teach him to read intelligently and with insight, and to lead him to read widely in the works of the more important writers.

The Major and Minor Courses are followed by those undergraduates whose studies are directed more especially to modern languages and their literature (Group VII).

3. In the English Minor a general course in English literature, from the earliest to recent times, is given, the text-book being Arnold's Manual of English Literature. In addition to the questions suggested by the text-book, the instructor supplements the work by oral instruction, the object being to make this course not a mere memorizing of names, works, and dates, but to give the class some living acquaintance with the more important authors, and to enable them to get some grasp of the literature as a continuous whole. The other part of this course consists of a study of the writers of the Early and Middle English periods, Morris and Skeat's *Specimens* being used as a text-book. The changes which both the language and the literature underwent during this transitional and formative period are dwelt upon, showing by what stages and under what influences Modern English was developed.

The Major Course in English—a third year's course—is divided between linguistic and literary studies.

4. *Anglo-Saxon.* An elementary course in Anglo-Saxon prose and verse occupies two hours a week for one year. The text-book used is Bright's *Anglo-Saxon Reader.*

5. In the literary part, one hour a week is given to the Early Scottish Poets from Barbour to Lindsay, whose work continues the great tradition of English literature during the otherwise somewhat dim period from Chaucer to Surrey. The texts are studied in a reader especially prepared for this class, and the necessary supplemental information, historical and other, is given by the instructor.

6. One hour a week is also given to the study of some important period of literature or group of writers sufficiently characteristic

to be regarded as a whole. For the first half-year the Elizabethan writers have usually been taken, including the reading by the class of one play of Shakespeare. For the second-half some other period or group is selected.

It will be seen that the undergraduate work in the Major and Minor courses comprises: the earliest English or Anglo-Saxon; the transitional literature from the Anglo-Saxon to Chaucer; the great period of Scottish literature between the times of Chaucer and Elizabeth; the great Elizabethans; and some important later period.

German.

This group of studies is under the direction of Professor Wood, with the assistance of Associate Professor Vos and Dr. T. S. Baker, Associate in German.

Instruction is provided in German of all periods, and in the earlier development of the other members of the Teutonic family of languages.

In the German Seminary, in which the graduate instruction centres, nearly equal attention is devoted to German Literature and German Philology. To enter upon the work of the Seminary in literature, the student should possess a knowledge of German equivalent to that imparted in the undergraduate courses, hereinafter mentioned, supplemented by private readings. For the seminary work in philology, it is desirable, in addition, that preliminary courses in Gothic and Middle High German should be first completed, and these may be taken with advantage by the student immediately upon entering. All graduate students of German are required to share in both the philological and literary work, and to direct their efforts to the attainment of broad results, which may serve as the foundation of scientific work and of successful teaching; but the Seminary and the allied graduate courses are believed to offer also sufficient opportunity and encouragement for the prosecution of chosen lines of work, whether on the linguistic or literary side, in accordance with individual capacity and bent. In this way, opportunity for independent research is afforded, within the framework of organized effort directed towards

the attainment of results which concern the Seminary as a whole, and towards which each member is expected to contribute his share.

The subjects selected for the Seminary during recent years have been as follows:

1894–95. Minnesangsfrühling; German Literature in the Eighteenth Century.
1895–96. Goethe and Schiller (1786–1805); Walther von der Vogelweide.
1896–97. Goethe's Faust; Parzival.
1897–98. Goethe's Lyrical Poems; Nibelungenlied.
1898–99. Storm and Stress and Early Romanticism; Walther von der Vogelweide.
1899–1900. Goethe's Faust; The Middle High German Court Epic.

The Germanic Society, which meets fortnightly, supplements the work of the German Seminary; before it are presented not only reports on articles in current journals, but also successive results of studies by the members. The chief object of the Society is to foster and guide the aptitude for more sustained individual investigation than the Seminary proper offers scope for. Lists of the papers presented and discussed are given in the yearly reports.

In addition to the work of the Seminary (three meetings a week), other advanced courses are given. For example, in 1899–1900, Professor Wood gave courses in Gothic, Old Norse (The Edda), and the Beginnings of German Classicism. Dr. Vos conducted classes in Middle High German, and Old High German (Alliterative Poetry), and lectured on Modern German Grammar and the History of Rime in Middle High German. A course on English Influence on German Literature in the XVIII Century was given by Dr. Baker.

The undergraduate courses in German are conducted chiefly by Associate Professor Vos, aided by Dr. T. S. Baker, with such other assistance as may from time to time be required. A course in elementary German is given for candidates for matriculation who have entered with Greek. This is followed by the regular work in German during the first college year, a course required of all undergraduates. Nearly equal portions of the German drama and of German literary prose are read. Private readings and weekly exercises in prose composition supplement the class readings.

Undergraduates in Group VII who elect German, or undergraduates in any of the seven groups who substitute German at this point in their course, pursue the study during a second year. The readings from the classical period are continued in texts of greater difficulty, and instruction is given in the history of German literature and in the writing of German prose.

An elective course (rapid reading of contemporary literature) is offered to undergraduates who have completed the work in German of the first college year. A second elective in scientific readings is open to undergraduates who are preparing to enter the Medical School.

Classes are also provided in Conversational German and in Historical and Scientific Readings, for graduates who lack the ability to read the language at sight.

Romance Languages.

Advanced instruction in Romance Languages is so planned as to cover at least three years, and is directed by Dr. A. Marshall Elliott, Professor of Romance Languages, with the assistance of Dr. Marden, Dr. Armstrong, Dr. Ogden, and others. The subjects of instruction are divided into three distinct sections: a purely linguistic, a purely literary, and a composite group which is intended to unite the first two. Every one who intends to take a degree in Romance Languages must work in these three lines, which are so arranged as to supplement one another according to the attainments and bent of the student, and which are concentrated, for given periods of the course, on the same linguistic domain. The first year is chiefly spent in preparation for seminary work, to which the student is generally admitted, as an active member, at the beginning of the second year. During this preliminary period a practical knowledge of the principal Romance languages is acquired (a thorough acquaintance with Latin and modern French being pre-supposed); a brief survey is given of the history of the science, together with an introduction to the use of scientific methods in language and literature. With this equipment the student is prepared to begin an appreciative scrutiny of special texts with their critical linguistic and literary apparatus.

He is taught to handle his materials with discriminating judgment, and, according to his progress, subjects are assigned to him for investigation which tend to develop the patience and accuracy necessary to a careful investigator. In literature as in language proper, it is particularly to the origins that his attention is directed, though constant reference is made, by way of comparison, to the modern forms. By extensive reading required in connection with the subjects taken up, he is made familiar with the different phases of opinion held by leading European scholars, and is thus enabled to control certain parts of his subject within well-defined limits. After the first year the student is expected to concentrate upon some single line of work within his general field. It will be observed that the student's work in this course is comparative, and that he moves from the general to the particular. In the early part of it, the object is to give a broad basis to work on, by making him so familiar with the principal Romance idioms that he may use them readily, by way of illustration, in his subsequent studies. Dialect study and phonology are made essential features of this plan of studies.

The subjects to which attention has been given in the Seminary in past years are as follows:

1883–84. Anglo-Norman Dialect and the Oaths of Strasburg.
1884–85. Cantilène de Sainte Eulalie and Fragment de Valenciennes.
1885–86. The Franco-Norman Dialect, with the Vie de Saint Alexis.
1886–87. The Oaths of Strasburg and the Cantilène de Sainte Eulalie.
1887–88. Old French Paraphrase of the Canticum Canticorum and the Fragment de Valenciennes.
1888–89. The Oaths of Strasburg and the Cantilène de Saint Eulalie.
1889–90. *Reimpredigt:* Grant mal fist Adam.
1890–91. L'Epopée royale: Pèlerinage de Charlemagne.
1891–1900. Marie de France: Fables.

In addition to the work of the Seminary, lectures are regularly given at stated periods of the course: (1) on French phonetics, physiological and historical, (2) on Old-French syntax, (3) on Romance morphology, (4) on French dialects, (5) on Italian dialects, (6) on Old-French palæography, (7) on the history of French Philology, (8) on the linguistic ethnography of France and Italy, (9) on the sources of Romance Philology, (10) on Popular Latin, (11) on Italian philology and literature, (12) on

Spanish philology and literature, (13) on Old-French literature, (14) on Modern-French literature, (15) on Romance versification, (16) on methodology of the Romance languages.

The special lectures on French literature are arranged to run through the whole period of three years, and form an important part in the training of the student.

A special publication, Modern Language Notes (A. Marshall Elliott, editor in chief), now in its fifteenth volume, is issued monthly by members of the modern language departments, in which are presented the most recent literary and scientific aspects of linguistic research in the modern idioms.

The undergraduate classes in French are conducted by the Associates of the department under the direction of the head of the department. Students in Group VII who elect French, follow class work for four hours weekly through two years, during which time they read extensive selections from Modern and Middle-French texts and are made acquainted with the general laws of French phonology and morphology. All undergraduates must complete the work of the first of these two years. Private reading is required, varying from year to year according to the authors taken up in class.

Courses in Italian and Spanish, similar in arrangement and requirements to those in French, are also provided for undergraduates.

History, Economics, and Politics.

The work of this department is under the direction of Professor Adams, who devotes special attention to institutional and educational history. He is aided by Associate Professor J. M. Vincent, in European history; Associate Bernard C. Steiner, in American history; Associate J. C. Ballagh, in classical history and American economic history; and Dr. G. C. Lee, in English history and parliamentary law. In economics, the work is guided by Associate Professor Sidney Sherwood, aided by Associate Professor J. H. Hollander. In politics, systematic instruction throughout the year is given by Associate Professor W. W. Willoughby.

As at present organized, the work of the department aims to accomplish three main results:

1. The preliminary training of students, both graduate and undergraduate, to such a knowledge of the essential facts and principles of general history and politics as will contribute towards a liberal education and serve to fit men to pursue advanced courses in special branches of these sciences, with a view to taking the doctor's degree or to entering the work of education, law, journalism, charity organization, or the civil service. This training process is pursued in undergraduate class courses, where systematic and positive instruction is given by means of required text-books, lectures, essays, oral reports, and constant drill. The undergraduate work extends in its various sections, over a period of three years (see College Courses, Sixth Group, beyond). A course in European History, taken in connection with the outlines of Economics, is also required of every undergraduate student not in the Historical Group. Graduates of other institutions who have not had the equivalent of these preliminary courses in History, Economics, and Politics, or who do not possess a knowledge of French and German, are expected to make up their deficiency by extra work in undergraduate classes.

2. Advanced instruction in history, economics, politics, social science, statistics, historical and comparative jurisprudence, historical criticism, methods of research, historiography, for graduates or special students of mature years, if qualified by ability and previous studies to pursue such courses. Undergraduates pursuing a course for the bachelor's degree are not allowed to take graduate work. Advanced instruction is given chiefly by lectures, accompanied by private readings by the students, and by frequent examinations, both oral and written, upon special subjects.

3. The development of a spirit of original research among the more advanced members. This end is attained chiefly in individual ways by the constant association and co-operation of students and instructors, not only in advanced classes and in various fields of special work, but in organized societies called Seminaries, or Conferences, of History, Economics, and Politics, meeting in the department library for the report and discussion of original studies. The scientific researches of graduate students are chiefly in fields of American institutional and economic history, but also in the broader domain of comparative politics and economics, social science, and education. The best results of original and

organized inquiry by this department are published in the volumes of "Historical Studies." Under the direction of Professor Adams, the history of higher education in the United States is being written by students and collaborators representing individual States. The monographs are published by the U. S. Bureau of Education. The results of original economic investigation have hitherto appeared in the "Studies," in the Publications of the American Economic Association, and in leading economic journals.

The following general statements will suffice to characterize the various courses of instruction. Details may be found in the annual announcements.

(*a*) *History.*—Professor Adams gives to graduate students six courses of lectures (two courses each year) upon institutional history. He selects representative phases of ancient and modern civic society. One-half of the first year is devoted to the early history of institutions and to Greek politics; the second half, to the history of Prussian politics and the nineteenth century. The first half of the second year is given to Roman constitutional history; the second half to French absolutism and the history of the French Revolution. During the first half of the third year particular attention is given to German peoples and their early migration and federations; during the second half, to Anglo-American institutions. Each year's work is independent and complete in itself. Professor Adams also gives courses of instruction in educational history, the history of civilization, Church history, the Italian Renaissance, and the history of international relations.

Dr. James Schouler, author of the History of the United States under the Constitution, gives in successive years short courses of lectures on American political and economic history.

Dr. Vincent lectures to graduates on (1) the social and economic history of Europe, (2) the Reformation and the Protestant Revolution, (3) the science of historical investigation and the general history of historical writing. He also conducts (4) a special conference of graduate students in the study of selected historical problems, and has charge of undergraduate courses (5) in European history, (6) in general Mediaeval and Modern history.

Dr. Steiner conducts an undergraduate course in American political and constitutional history.

Dr. Ballagh has collegiate classes in Greek and Roman history and conducts graduate conferences on American economic history and Municipal Government.

Dr. Lee conducts a collegiate course in English Constitutional Law and History; also courses in Debating and Public Speaking.

(*b*) *Comparative Politics.*—Dr. Willoughby conducts a political conference and gives courses of class lectures upon the following subjects: (1) Theory of the State; (2) advanced United States Constitutional Law; (3) History of Political Philosophy; (4) Legal Aspect of Economic and Industrial Problems; (5) Comparative Constitutional Law.

(*c*) *American Diplomatic History.*—Dr. Albert Shaw, editor of the American monthly *Review of Reviews*, and a graduate of this department of the Johns Hopkins University, has provided for courses of lectures on the above subject for the years 1899 and 1900. Dr. John H. Latané and Dr. J. M. Callahan have been appointed lecturers.

(*d*) *Economics and Social Science.*—Systematic instruction is offered both in the general theory and in the most important special fields of economic science. Effort is directed to promote the mastery of sound methods of research. Considerable attention is given to the history of the science itself as one of the best means of studying the development of economic life and institutions.

Dr. Sherwood conducts the following graduate courses: (1) Economic Seminary, meeting two hours weekly; (2) nine courses of lectures, planned to extend over a period of three years, the subjects being (*a*) money, (*b*) corporations, (*c*) law and economics, (*d*) transportation, (*e*) commerce, (*f*) principles of economics, (*g*) theory of credit, (*h*) economic aspects of social development, (*i*) banking.

Dr. Hollander lectures upon (1) science of finance, (2) history of economic theories, (3) financial and industrial history of the United States. In 1897–98, his courses were (*a*) the economic system of David Ricardo, (*b*) the development of commonwealth taxation in the United States. In 1898–99, he considered, during the first half of the year, the development of economic theories since Adam Smith; the second half, he reviewed the history and theory of industrial crises. In 1899–1900 his topics were (*a*) economic theories before Adam Smith, (*b*) municipal finances.

Undergraduate instruction, conducted by Doctors Sherwood and Hollander, is given as follows: (1) course in general economics (Minor Politics), four hours weekly throughout the year, required of students in group VI; (2) course in general economics, two hours weekly throughout the year: taken in connection with a two-hour course in European History, this forms the History-Economics course required of all undergraduates not in Group VI; (3) advanced economics, two hours weekly throughout the year, open as an elective course to students who have taken either (1) or (2).

Philosophy.

A course in the History of Philosophy, for graduate students, is given by Professor Griffin, in which Bacon's Novum Organum (Book I), Descartes's Method, Meditations, and Principles of Philosophy, Spinoza's Ethics, Leibnitz's Monadology, Locke's Essay on Human Understanding (Books I, II, IV), Berkeley's Principles of Human Knowledge, Hume's Treatise on Human Nature (Book I), Kant's Critique of Pure Reason and Critique of Practical Reason (in Watson's "Selections") are read and discussed.

The instruction in Philosophy offered at present is, however, mainly undergraduate, consisting of required courses in Logic, Psychology, and Ethics, which occupy five hours per week throughout the year.

(*a*) *Logic.* The logical forms—terms, propositions, syllogisms—are studied as an analysis or explanation of the thinking process, and as a practical discipline in exact thought; attention is given also to the material elements in inference, as these are stated in the several inductive methods.

The work is conducted by means of recitations—Creighton's Introductory Logic being used as a text-book,—informal lectures, and written exercises in the definition and division of terms, in the opposition and conversion of propositions, in the application of syllogistic rules, in the criticism of arguments, etc.

(*b*) *Psychology.* The instruction in Psychology is intended to give a general view of the results of present methods of study,

the investigations in regard to the quality and intensity of sensations, the duration of psychic acts, etc.—in general, the subjects treated in the second part of Ladd's Physiological Psychology—being presented with sufficient detail to render them intelligible and interesting. A series of lectures and demonstrations on the anatomy and physiology of the nervous system by Dr. L. F. Barker is included in the course.

Especial emphasis is laid upon the facts of conscious experience as known through introspection, the most important end to be secured being, as it is believed, such an understanding of the facts and laws of mental life as shall fit one for wise self-government and effective influence. With this view, such powers and states of mind as attention, memory, association, habit, imagination, the feelings, the will, are discussed in as concrete and practical a way as possible. Baldwin's Elements of Psychology and Ladd's Outlines of Physiological Psychology are used as the basis of instruction, but these are largely supplemented by lectures, and by references to various authorities. An essay on an assigned subject is required from each member of the class.

(*c*) *Ethics.* Ethics is treated with reference to its fundamental problems as a theoretical science, and also from a practical point of view. Its psychological basis in the various forms of feeling native to our constitution, and in the power of rational self-determination; the nature of the sense of obligation; the authority of conscience; the diversities of moral opinion; the historic theories of morals—hedonism, utilitarianism, intuitionism, and the application to ethical theory of the doctrine of evolution—these are some of the topics discussed.

Fowler's Principles of Morals, Part II, is employed as a textbook, but the instruction is necessarily given, to a considerable extent, through lectures. One essay is required from each member of the class.

(*d*) *History of Philosophy.* An outline of the history of philosophy is given in a series of lectures, some of which are included in the prescribed instruction, and some of which are for the benefit of any who may be disposed to attend them.

Mathematics.

The instruction in Mathematics is at present entrusted to Professor Newcomb, Professor Craig, Dr. Hulburt, Collegiate Professor of Mathematics, and Dr. Cohen, Associate in Mathematics.

The more advanced courses vary from year to year, and are so arranged that a student who remains here two or three years may receive continued and systematic guidance in any of several directions. The less advanced subjects are nearly the same every year. Students properly qualified have open to them most or all of the following courses in any three consecutive years:

Under the general heads of Arithmetic, Algebra, and Geometry: Theory of Numbers, Theory of Substitutions, and Groups of Transformations, Theory of Invariants, Theory of Surfaces and Twisted Curves, Higher Plane Curves, and Synthetic Geometry. Courses are also given in Finite Differences and in the Theory of Probabilities.

Under the head of Analysis: Theory of Functions of One and More Complex Variables and Functions of Real Variables, Algebraic Differential Equations, Linear Differential Equations, Partial Differential Equations, Algebraic Integrals of One and Two Variables, Elliptic Functions, Abelian and Theta Functions, Automorphic Functions and their application to linear differential equations.

Under the head of Applied Mathematics: Rational Mechanics, Theoretical Dynamics, Celestial Mechanics, Kinematics, Theory of Attractions, and Theory of the Potential, the latter involving a full account of Neumann's, Schwarz's and Poincaré's methods for Dirichlet's Problem.

Undergraduates are annually instructed in Elementary Analytic Geometry, Theory of Equations, Elements of Projective Geometry, Differential and Integral Calculus, Differential Equations, Solid Analytic Geometry.

Seminary work is carried on by Professor Craig. Short courses of lectures on special subjects other than those mentioned above are given from time to time during the year by Professor Craig, and by others who may be invited to do so.

A large number of mathematical journals are regularly received, besides the publications of learned societies abroad and at home.

Among the journals received are the following (the asterisk indicating full sets):

Journal für die reine und angewandte Mathematik* (Crelle); Journal de Mathématiques pures et appliquées* (Liouville); Comptes Rendus; Mathematische Annalen*; Monatshefte für Mathematik und Physik*; L'Intermédiaire des Mathématiciens*; Bulletin des Sciences mathématiques*; Journal de l'École Polytechnique; Annales de l'École Normale; American Journal of Mathematics*; Annali di Matematica*; Giornale di Matematica*; Acta Mathematica*; Archiv für Mathematik und Physik* (Grunert); Zeitschrift für Mathematik und Physik*; Proceedings of the London Mathematical Society*; Bulletin of the American Mathematical Society*; Bulletin de la Société mathématique de France*; Rendiconti del Circolo Matematico di Palermo*; Quarterly Journal of Mathematics*; Messenger of Mathematics; Annals of Mathematics.*

The University has a collection of about two hundred and thirty geometrical models, illustrating the forms of mathematical solids, surfaces, and curves, their singularities and varieties, and the methods of descriptive geometry by which they are represented on a plane.

The American Journal of Mathematics, founded by Professor Sylvester, and edited in recent years by Professor Craig, and since 1899 by Professor Newcomb, has completed its twenty-first volume. Volume XXII is in progress. Beginning with Volume X, there has been published in each volume the portrait of an eminent mathematician. Those so far published, and in the order of publication, are as follows: Sylvester, Hermite, Poincaré, Cayley, Klein, Halphen, Lie, Picard, Appell, Fuchs, Darboux, Newcomb.

Physics.

The instruction in Physics is under the charge of Professor Rowland, Director of the Laboratory, with the aid of Professor Ames, Sub-Director of the Laboratory, Dr. W. J. A. Bliss, Dr. N. E. Dorsey, Mr. J. B. Whitehead, and several assistants.

The laboratory is a substantial brick building 117 feet long by 71 feet wide, with five stories besides a basement and a sub-basement, and is so situated as to receive light from all sides. Power and heat are furnished from separate buildings.

The physical apparatus includes an equipment for lectures and demonstrations and a valuable collection of instruments for elementary work and research. Many of these have been made from special designs, others are standard instruments which have been purchased from European and American makers; all of them have been most carefully selected. Special facilities, in some cases almost unique, are afforded those wishing to carry on investigations in electricity and in light.

The physical and mathematical libraries of the University are now placed in McCoy Hall, where they are easily accessible at any time. The physical section contains complete sets of almost all the physical journals published in this country and abroad, and all the standard books of the present and the past. About sixty periodicals, English, French, German, and Italian, are received. Certain magazines and books of reference are retained in the Seminary Room of the laboratory, where the advanced students can consult them at any moment. This small collection is specially selected each year with reference to the courses of advanced instruction offered that year. Among the magazines kept on file in the laboratory are the following:

Philosophical Magazine, Physical Review, The Astrophysical Journal, Wiedemann's Annalen and Beiblätter, Zeitschrift für Physikalische Chemie, Journal de Physique, Comptes Rendus, Proceedings and Transactions of the Royal Society of London, the Proceedings of the London Physical Society, L'Eclairage Electrique, and the Electrician (London.)

Instruction and facilities for work in the laboratory are offered all classes of students, elementary and advanced. The following is a general view of the courses:

First Year (Minor) Course.—This is intended for students who are beginning Physics, or who have not a sufficient knowledge of the principles of the subject to warrant their undertaking more advanced work. To enter this course a student must be able to use logarithms and must have studied plane trigonometry, at least as far as through the solution of right-angled triangles. The lectures are accompanied by demonstrations; and mechanics, sound, heat, electricity and magnetism, and light are taken up in succession. Recitations on the subjects treated in the lectures are held regularly, and the course continues, four hours weekly,

through the year. Along with the lectures the student does regular work in the laboratory, three hours a week, performing simple quantitative experiments, which illustrate the facts and principles considered in the class-room. Written records of lectures and reports of laboratory exercises are required.

Second Year (Major) Course.—This is designed to meet the needs of students who have already taken either the first year's course, or its equivalent, and who wish to pursue further their physical studies. A working knowledge of analytic geometry and calculus is required for admission to this course. The lectures take up the mathematical side of physics largely, and are on the following subjects:

Mechanics, extending to some of the simpler problems in the dynamics of rigid and elastic bodies.
Thermodynamics.
Electricity and Magnetism.
Geometrical and Physical Optics, with special reference to diffraction phenomena.

Recitations are held regularly, and the course continues, four hours weekly, through the year. The laboratory work of this year occupies five hours a week, and includes problems that present greater difficulties, experimental or theoretical, than those of the first year. The student is allowed the choice of work in mechanics and electricity, or in heat and light. Written records and reports are also required in this course.

Advanced Work.—For the instruction of those students who have the necessary preparation, certain lectures are given in Mathematical Physics. There is one course, continuing through two years, which includes thermodynamics, heat conduction, physical optics, electricity and magnetism. As a preparation for this, students are advised to take a preliminary course for one year, which treats briefly one or two subjects, such as hydrodynamics, theory of elasticity, sound, mechanics, or theory of attractions. These lectures develop fully the mathematical theory of the subjects; and to follow them the student should have a satisfactory knowledge of differential equations and analytic geometry of three dimensions. Authors like Lord Kelvin, Lord

Rayleigh, Maxwell, von Helmholtz, Poincaré are referred to continually, and the ability to read French and German is absolutely necessary.

There is also a course of instruction, both theoretical and practical, in applied Electricity, This course is intended for graduate students only.

The advanced students meet with the instructors once a week for the discussion of the current physical journals. Carefully prepared reports on various articles are here presented.

The Physical Seminary, to which only the most advanced students are admitted, meets once each week. The work of the seminary consists of two distinct exercises. One is the reading of some physical treatise and a consideration of the problems suggested by it; the other is the presentation of critical papers upon various assigned topics which are of special or historical importance.

An effort is made to render the laboratory as useful as possible to advanced students and investigators. Those who are prepared for such work, will have the facilities which it affords placed most freely at their disposal, and will receive all possible assistance.

Chemistry.

The instruction in Chemistry is under the charge of Professor Remsen, Director of the Laboratory, with the coöperation of Professor Morse, Sub-Director, Professor Renouf, First Assistant, Dr. Gilpin, Second Assistant, Dr. Jones, Associate in Physical Chemistry, and other aids.

The higher or graduate work is based upon that given in the two years' undergraduate course, and those graduates of other colleges who have not followed courses equivalent to this, begin with that part of the undergraduate work which appears best suited to their needs. The following outline of the work will give some idea of its character:

Undergraduate work: First year.—From five to six hours each week through the year are given to laboratory practice. Three lectures are given each week by Professor Renouf, and one review

on the subjects treated in the lectures and on the laboratory work is conducted by Professor Renouf and Dr. Gilpin. The ground covered by this course is approximately that laid down in "An Introduction to the Study of Chemistry" by Ira Remsen (Holt, New York), which is the text-book used.

Undergraduate work: Second year.—In this year the same amount of time is given to the laboratory as in the first year. The object in view is to give a more complete knowledge of the phenomena of chemistry than is given in the first year. The making of preparations of both inorganic and organic compounds plays an important part in the work. Further, the study of analytic reactions and of analysis is taken up as far as the time permits. Besides the laboratory practice, the course includes class-room work as follows: From October 1 until the Christmas recess four exercises a week in general inorganic chemistry, based largely upon the laboratory work, and conducted by Professor Morse. As a book of reference to be used in connection with the laboratory work of this part of the course, and also for general study, Remsen's "Inorganic Chemistry: Advanced Course" (Holt, New York) is recommended. From January 1 until the end of the year the study of the chemistry of the compounds of carbon is taken up, the class-room work, which is based upon Remsen's "Introduction to the Study of the Compounds of Carbon" (Heath, Boston), occupying four hours a week, under the guidance of Professor Morse.

Graduate work.—The greater part of the work in the advanced courses is carried on in the laboratory. The subject of qualitative analysis is taken up thoroughly after a careful study of reactions as laid down in the "Introduction to Chemical Analysis" by Volhard and Zimmermann, while at the same time the study of general chemistry is continued. A prolonged course in quantitative analysis follows. The analytical work, which is under the supervision of Professor Morse, requires about a year. After this, an opportunity is given for the preparation of a variety of compounds involving methods of general importance, or illustrating important classes. A course in the methods of physical chemistry, such as the determination of molecular weights by observations on the boiling-points and freezing-points of solutions, measure-

ments of electrical conductivity, etc., is conducted by Dr. Jones. The course in the preparation of organic compounds is that laid down in Remsen's "Introduction to the Study of the Compounds of Carbon," supplemented by selections from Levy's "Anleitung zur Darstellung organischer Präparate," Fischer's book of the same title, and Gattermann's "Die Praxis des organischen Chemikers." This work is under the personal supervision of Professor Remsen. During the last year of his course the student undertakes an investigation, under the guidance of one of the teaching staff, and, in case he is a candidate for the degree of Doctor of Philosophy, his dissertation is based upon the results obtained in the investigation.

Special lectures are offered to advanced students, the topics varying from year to year. During the current year Professor Remsen gave five lectures a week to graduate students on the Chemistry of the Compounds of Carbon. Dr. Jones gave an elementary course of lectures on Physical Chemistry twice a week during the first half-year, and a more advanced course three times a week throughout the year. There was also a course of lectures in the field of historical chemistry, in which some of the advanced students took part each one working up an assigned topic, and presenting the results in the form of a lecture. Meetings were held weekly during the year to hear reports upon the more important articles in journals of chemistry. Next year, 1899–1900, Professor Remsen will lecture five times weekly, through the entire year, on the chemistry of the Compounds of Carbon (second half) for graduate students. Lectures on Physical Chemistry will also be given as this year. The historical course and the journal meetings will be continued.

While, in the courses outlined above, the books mentioned are used as the guides, the instruction is in no case confined to what is presented in the book. Students are constantly referred to the journals and other publications containing articles bearing upon their work. Further, *the chief instruction in every course is that given in the laboratory.*

As regards the time required by a graduate student to complete the work for the degree of Doctor of Philosophy, it can only be said that one who has the necessary qualifications can generally do it in three years, after following such a course as that given to the undergraduates of this university who take the two years'

course in chemistry. Those who have not had this preparation will generally require a longer time. There are no stereotyped courses leading to the higher degree, and it is impossible to say exactly what must be accomplished to attain it. What is desired is a certain maturity of mind with reference to the science of chemistry, and an ability to deal with chemical problems intelligently. This condition of mind is reached, if reached at all, by long-continued laboratory training accompanied by careful study of chemical journals and treatises. It may be said finally that the arrangements of the laboratory are made mainly with reference to those who wish to take up the study of chemistry in a broad way, and that those who want short courses in special branches of chemistry are not advised to come here. It is believed that whatever object the student may have in view, whether he intends to teach or to follow some branch of applied chemistry, the best preparation he can have is a thorough training in the pure science.

The American Chemical Journal, edited by Professor Remsen, is now in its twenty-third volume.

Geology.

The instruction in Geology is under the direction of Professor W. B. Clark, assisted by Dr. H. F. Reid, Associate Professor of Geological Physics, Dr. E. B. Matthews, Associate Professor of Mineralogy and Petrography, Dr. G. B. Shattuck, Associate in Physiographic Geology, and Dr. O. L. Fassig, Instructor in Climatology.

An important course of lectures is given annually by Mr. Bailey Willis, of the U. S. Geological Survey, Lecturer on Stratigraphic and Structural Geology. Shorter courses are given by Professor Cleveland Abbe, of the U. S. Weather Bureau, Lecturer on Meteorology, and by Dr. L. A. Bauer, of the U. S. Coast and Geodetic Survey, Lecturer on Terrestrial Magnetism.

The George Huntington Williams Memorial Lectureship in the Principles of Geology was inaugurated in April, 1897, by Sir Archibald Geikie, Director-General of the Geological Survey of Great Britain and Ireland. A second course of lectures by Pro-

fessor W. C. Brögger, of the University of Christiania, was given in April, 1900.

The courses in geology, which are offered to both graduate and undergraduate students, consist of lectures, laboratory and field work, and conferences upon topics of current literature. Great importance is attached to laboratory training as a part of the geological course, and facilities are given for daily work from 9 a. m. to 5 p. m.

Commodious rooms have been fitted up in Hopkins Hall for the uses of the geological department, and contain the books, apparatus, and collections pertaining to geology.

Lecture Courses.—I. General Geology.—This course is planned to serve as an introduction to all work in geology, for both undergraduate and graduate students, irrespective of the particular department in which they may choose their principal subject.

The lectures embrace a general survey of the whole field of geology, and are illustrated by rocks and fossils, by maps and sections, and by lantern views. Excursions are made on Saturdays, during the autumn and spring months, into the surrounding country. During the winter months an afternoon weekly is devoted, in the laboratory, to the exposition of specimens of rocks, fossils, and minerals.

II. Paleontology.—Attention is devoted to both the biological and geological relations of the important types of the animal and plant kingdoms. The phylogenetic history of the leading groups is also traced out in considerable detail wherever possible.

III. Historical Geology.—In this course the classification and distribution of the sedimentary rocks are fully considered. The value of fossils in the determination of horizons is explained, and a detailed study made of the geological literature of the different countries of the globe. An extensive series of maps is in constant use to illustrate the course.

Courses II and III are given in alternate years, if thought desirable.

IV. Experimental Geology.—Geological phenomena, which depend directly upon physical principles, such as volcanoes, earthquakes, geysers, flow of rivers, production of folds, faults, etc., are treated theoretically, and, so far as possible, experimentally.

Laboratory work accompanies the course, the student being given an opportunity to make experiments of his own.

V. Geological Physics.—In this course the size and shape of the earth, the temperature, rigidity, age, magnetic conditions, etc., are discussed.

VI. Exploratory Surveying.—The simple methods of determining geographical position; the methods of rapid route surveying; the use of the plane-table, the camera, etc., are considered with especial reference to travellers and explorers. The principles of map projection are explained. Practical instruction in the use of the instruments is given.

VII. General Mineralogy.—This course is divided into three parts. The lectures treat of the crystallography, the general physical properties, and the description of mineral species. The laboratory course includes work with crystal models, goniometers, and blow-pipes. Emphasis is laid on the mode of formation and geological occurrence of minerals. The course closes with a discussion of the leading types of rocks.

VIII. Advanced Mineralogy.—The lectures include a full discussion of optical and microscopical mineralogy. Especial attention is given to the behaviour of minerals as constituents of rock masses.

IX. Petrography.—This course includes a discussion of methods and a description of the structures and physical properties of rocks. The second portion of the course is devoted to the special petrography of the igneous rocks, including a study of their various classifications and a discussion of their origin, distribution, and literature. The consideration of the more common sedimentary and metamorphic rocks concludes the course.

Courses VIII and IX are given in alternate years, if thought desirable.

X. Climatology.—In this course of lectures the topics chiefly considered are: Heat and its distribution over the earth's surface; rainfall and evaporation—their distribution and effects; winds and storms; weather sequences as illustrated by the daily weather charts of the U. S. Weather Bureau; extent to which topography influences the distribution of the climatic elements; variability of climates; organization and methods in statistical meteorology.

XI. Physiographic Geology.—This course deals primarily with the description of topographic forms, and includes a discussion of their origin and classification. The lectures are illustrated with maps, models, and lantern views.

XII. Geological Drawing.—An opportunity is afforded in this course to learn the methods of map and section drawing and coloring, together with such other lines of geological illustration as the student may desire. The sketching of geological sections in the field is included in the course.

XIII. Stratigraphic and Structural Geology.—This course consists of a description of the processes which result in the formation and upheaval of sedimentary rocks. Erosion is discussed with special reference to conditions governing the character of detrital materials. Sedimentation is considered as a complex process of sorting, distribution, and deposition of the waste of land areas, and deformation is treated as the process which initiates erosion, and also, as applied to folding, as the indirect result of excessive deposition. The mechanics of rock folding and thrusting are illustrated both by actual sections of the Appalachians and by experimental results. The whole course centres on a discussion of the principles which should govern the interpretation of the sedimentary record.

XIV. Meteorology.—A few lectures are given by Professor Abbe, at irregular intervals, on the principles of meteorology.

XV. Terrestrial Magnetism.—Dr. Bauer gives a few lectures on the principles of terrestrial magnetism and the relations to geology and climate.

XVI. Principles of Geology.—(The George Huntington Williams Memorial Lectureship.) A course consisting of seven lectures was given by Professor W. C. Brögger, of the University of Christiania, in April, 1900.

Laboratory Work.—Laboratory courses are arranged to accompany the lectures, while advanced or special students are given the opportunity to carry on fuller investigations upon either described or new materials.

The introductory laboratory work consists of a study of materials designed to illustrate Lecture Course I, and includes typical fossils and minerals, together with maps, models, and sections of fully described areas.

Specially selected materials are also employed to illustrate the more advanced courses. Extensive collections for both the organic and inorganic work are owned by the University, and include both determined and undetermined specimens.

Experiments are made in connection with the work in Experimental Geology.

For those who plan to carry on original investigations large series of undescribed materials are accessible, while the immediate region affords exceptional opportunities for further collecting. Several such special pieces of work relating to the local area have already been published, while others are at the present time under consideration in the laboratory.

Conferences and Student Lectures.—In order that the advanced students may be kept in touch with the most recent investigations in the science, conferences are held at which the leading journals in geology are reviewed by the students under the direction of the instructors. The conferences take place bi-weekly.

In order that the advanced students may also have the experience necessary for the successful preparation and delivery of class-room lectures, a course upon some phase of geology is arranged, a special topic being assigned to each student. The lectures take place bi-weekly, alternating with the conferences.

Field Work.—The area of the State of Maryland includes, notwithstanding its comparatively small size, a remarkable sequence of geological formations. The ancient rocks of the earth's crust, as well as those still in the process of deposition, are found, while between these wide limits there is hardly a geological epoch which is not represented. As a result, most excellent facilities are afforded for a study of the various geological horizons.

During the autumn and spring, excursions are made upon Saturdays into the surrounding country, the crystalline areas and the various Cretaceous and Tertiary formations being readily accessible. More extensive excursions are made from time to time into the early Mesozoic and Paleozoic areas of the western portion of the State, and into the highly fossiliferous Tertiary region of the lower Chesapeake Bay.

After the student has become familiar with the various regions under the guidance of the instructors, he is encouraged to take up

the study of some specified area, where, according to his inclinations, he may carry on investigations upon the older crystalline rocks or the later fossiliferous strata. Several theses of this nature have already been presented for the degree of Doctor of Philosophy.

Geological Camp.—Arrangements are made annually for a geological encampment of several weeks after the close of the classroom lectures at the University.

Those who are present receive thorough training in field methods along various lines under competent instructors. Complete instrumental outfits, employed in geological, topographical, climatological, hydrographical, and agricultural investigations, are provided and daily use is made of them. Special lecturers are secured. The first camp was established in 1898 in the vicinity of Cumberland, in the heart of the Appalachian Mountains, and the various physical features of the district were studied by those in attendance. During 1899 the camp was located on the Chesapeake Bay, one of the State steam-boats being placed at the disposal of the party. During 1900 the camp will be located on the Chesapeake & Ohio canal, a trip from Georgetown to Cumberland across the Piedmont and Appalachian regions being arranged.

Geological Laboratory and Library.—The Geological Laboratory is situated in Hopkins Hall, and comprises over thirty rooms, large and small. Here are placed the library, apparatus, and collections, which are accessible to the student daily from 9 a. m. to 5 p. m.

In accordance with the custom of the University, those books relating to the work of the geological department are given into its charge, the books of general reference being retained in the University Library.

The main room upon the third floor, called the Williams room, contains the collections and library of the late Professor George Huntington Williams. A smaller room upon the same floor contains the books and collections of the late Professor H. Carvill Lewis and is known as the Carvill Lewis room.

A room upon the second floor contains the valuable meteorological library recently presented to the University by Professor Cleveland Abbe, of the U. S. Weather Bureau. This very exten-

sive collection of books will be of much value to the student of climatology.

The general library of the department contains a good representation of the leading journals and works of reference upon geological subjects. It is greatly enriched by the Williams, Lewis, and Abbe libraries mentioned above. Extensive series of topographical and geological maps likewise form a portion of the library, and these are constantly increasing in number.

The library of the Maryland Geological Survey, connected with the geological department, already embraces an important collection of journals and proceedings of learned societies and is rapidly increasing as the result of extensive exchange.

In addition to libraries belonging to the University, the Peabody Library, rich in geological works, is available for the use of students, while books not obtainable in Baltimore may be readily consulted in the libraries of Washington.

Collections and Apparatus.—The collections of the department consist primarily of a large amount of important material brought together from Maryland and adjacent States. It represents all the horizons of the State, being especially rich in crystalline rocks and in Cretaceous and Tertiary fossils. Some of this material has already been described, while much awaits further study.

Among the most important of the special collections are the Williams, Lewis, Krantz, Hill, Stürtz, Lehmann, and Allen collections.

The apparatus includes series of models of the continents, of the State of Maryland, and of the area surrounding Baltimore, as well as of special regions of geologic and topographic interest. The department is also provided with numerous photographs and lantern slides, several goniometers, a dissolving stereopticon, over a dozen microscopes of late design, an electrical machine for preparing rock-sections, a complete suite of wooden and glass crystals, together with other important pieces of apparatus for special work. The machine shop of the Maryland Geological Survey is also equipped with the latest apparatus for testing the wearing and cementing qualities of road materials. This work is carried on under the direction of Dr. Reid.

State Scientific Bureaus connected with the Geological Department.—Two scientific bureaus, established by the Legislature and maintained at the expense of the State, are carried on in connection with the geological department. They are the Maryland Geological and Economic Survey and the Maryland State Weather Service. Professor Clark is in charge of both of these organizations, which are concerned with a study of the geology and physical features of the State of Maryland.

Maryland Geological Survey—The Maryland Geological and Economic Survey was established by an act of the Legislature in March, 1896. It receives at the present time for its different departments of work the sum of $25,000 annually from the State.

Professor Clark was elected, by the commission, State Geologist and Superintendent of the Survey, with instructions to carry out the provisions of the original and subsequent acts. Work is carried on under his direction by the instructors and students of the department. The varied geology of Maryland and its diversified resources afford a most attractive field to the investigator.

Maryland Weather Service.—The Maryland Weather Service was organized under the joint auspices of the Johns Hopkins University, the Maryland Agricultural College, and the U. S. Weather Bureau, in May, 1891, and was recognized by the Legislature of the State in March, 1892, when provision was also made for its maintenance by the appropriation of $2,000 annually. Professor Clark has been Director of the Bureau since its organization. Observers detailed by the U. S. Weather Bureau have conducted the work. Excellent facilities are afforded the students in Geology to study the methods of weather bureau observation, and to take part in the work themselves whenever they desire to do so.

Advantages afforded by Proximity to Washington.—Washington is less than an hour distant from Baltimore. This renders it possible to take frequent advantage of the facilities afforded by that city, where the officers of the various scientific bureaus and societies give the students of the University every opportunity to examine the rich collections and libraries under their control. Special return tickets are obtainable by students for one dollar.

Geological Society of Washington.—The advanced students in Geology are members of the Geological Society of Washington, where they have the opportunity of hearing the results of the latest investigations presented by some of the leading workers in the science, and also have the chance to enter into the discussions or offer original papers of their own. The bi-weekly meetings have been frequently attended by the instructors and students of the department.

National Geographic Society.—Like opportunities are open to the advanced students of the University to become members of the National Geographic Society. As some of the most distinguished explorers and scientists lecture before this Society, unusual opportunity is presented to hear the results of their researches.

Scientific Collections and Libraries.—The scientific collections and libraries of the Smithsonian Institution, United States National Museum, and United States Geological Survey, as well as the Library of Congress, are accessible to students under certain conditions.

The Biological Sciences.

The laboratories of the University afford instruction and opportunities for research to properly qualified students in Zoölogy and Botany, in animal Physiology, in human and comparative Anatomy, and in Pathology.

ZOÖLOGY AND BOTANY.

The work in Zoölogy and Botany is directed by Dr. W. K. Brooks, Professor of Zoölogy, assisted by Dr. E. A. Andrews, Associate Professor of Biology, Dr. D. S. Johnson, Associate in Botany, Dr. B. W. Barton, Lecturer in Systematic Botany, and other assistants.

Advanced Zoölogy: Professor Brooks and Associate Professor Andrews.

This course is designed for students who wish to devote themselves to zoölogy, and for those who select zoölogy as the chief subject for the degree of Doctor of Philosophy. The work, which occupies a year, is as follows:

(1). Laboratory work, throughout the year. The student is required to verify the results of certain zoölogical memoirs, which are selected in order to illustrate the application of technical methods, as well as scientific principles, and, also, to study the collateral literature. The work for 1899–1900 was based upon the following memoirs: Weismann, Die Entstehung der Sexualzellen bei den Hydromedusen; Zeigler, Die Entwicklung von Cyclas cornea; Witlaczil, Entwickelungsgeschichte der Aphiden. After he has completed this work the student is allowed more freedom in the selection of subjects.

(2). A course of twenty lectures by Professor Brooks, weekly from January 1 to the end of the year, on the history of zoölogy. Prominence is given to the history of general principles, and selected books are also read in course. The books selected for 1899–1900 were The Cell (Wilson) and the Descent of Man (Darwin).

(3). Zoölogical Seminary: weekly throughout the year. The work of the seminary for 1899–1900 was based upon Vol. II. of the Zoölogy of Parker and Haswell, and Hertwig's Embryology. These books were read in course, and each student was also required to give one or more lectures upon an assigned subject, basing them upon the general literature of the topic.

(4). Zoölogical and Botanical Journal Club: weekly throughout the year; Professor Brooks, Associate Professor Andrews, and Associate Johnson. All graduate students, assistants, and instructors are expected to take part in the meetings of the journal club, and to report upon the current literature of assigned topics.

(5). A course of twelve lectures on Protoplasm, by Associate Professor Andrews.

General Zoölogy and Comparative Anatomy: Professor Brooks and Associate Professor Andrews.

This course is designed for those who intend to teach zoölogy, for those who look forward to advanced studies in zoölogy, for those who desire an acquaintance with the elements of zoölogy and with comparative anatomy and embryology, as a part of a liberal education, and for those students who, having completed the minor course in biology, preliminary to medicine, desire a wider acquaintance with the animal kingdon. The work is as follows:

(1). Two afternoons of work in the laboratory, throughout the year, in systematic zoölogy and comparative anatomy and embryology. The student makes careful dissections and drawings of typical forms from most of the principal groups of vertebrated animals, and studies the systematic zoölogy of the genera and species of one group, either fishes or insects being selected for systematic study. One-third of the time is devoted to the study of the embryology of vertebrates, with the embryo chick, the frog, and the trout as types. While the chief purpose of the work in embryology is to introduce the student to some of the scientific problems of the morphology of vertebrates, the course also provides training in the collection and preservation of embryological material, in the use of hardening and staining reagents, in the preparation and preservation of serial sections for microscopic study, and the reconstruction of drawings and models from sections.

(2). Four lectures a week from the beginning of the year to the Christmas recess, on elementary zoölogy, by Professor Brooks.

(3). Four lectures a week from January 2 to the Easter recess, on elementary botany, by Dr. Johnson.

(4). Four lectures a week, from the Easter recess to the end of the year, on embryology, by Associate Professor Andrews.

Courses 1, 2, 3, and 4, with laboratory work, five hours a week through the year, constitute a " major course," and may be offered as a subsidiary subject for the degree of Doctor of Philosophy.

Introductory Course in Biology: Associate Professor Andrews and Dr. Barton.

This course, consisting of four lectures and five hours of laboratory work weekly, throughout the year, is designed as part of the general education of every college student, and is open to all candidates for the A. B. degree, as well as to special students. It is regarded as essential to all students intending to take up the study of medicine, or to follow any line of applied biology, and it (or an equivalent) is required for entrance to the Medical School. This course may be taken without previous courses in physics and chemistry, but preparatory training of this character is strongly recommended. It is chiefly a laboratory course of two afternoons a week throughout the year, supplemented by four hours a week of lectures, recitations, and exercises designed to emphasize the

more essential truths of biology. In the laboratory, each student studies with the microscope, or dissects, selected plants and animals, from the simpler, such as amoeba and yeast, to the complex, such as the fern, the frog, the flowering-plant, and the rat. He also studies the elements of systematic botany. This course may be offered as a subsidiary subject for the degree of Doctor of Philosophy.

Advanced Botany: Dr. Johnson.

(1). Morphology of Plants. Two lectures and two laboratory exercises a week, throughout the year. A course in the comparative morphology and the classification of the vegetable kingdom, with especial reference to reproduction.

(2). Physiology and Histology of Plants. Two exercises a week, throughout the year. The course is an outline of vegetable physiology and histology.

(3). Botanical Seminary, weekly through the year. Goebel's "Organographie der Pflanzen" formed the basis for the work of the seminary for 1899–1900.

Courses 1, 2, and 3, may be offered as a subsidiary subject for the degree of Doctor of Philosophy.

Elementary Botany: Dr. Johnson.

Four lectures a week, from January 2 to the Easter recess, on elementary Botany, for those who look forward to advanced work in botany, and for those who desire an acquaintance with the elements of botany, as a part of a liberal education.

Students of Botany have access to the extensive herbarium and valuable library of Captain J. Donnell Smith, the Schimper herbarium, the Fitzgerald collection of mosses, the local collections of the Naturalists' Field Club, and the collection of Cryptogams of the late Dr. Humphrey.

The studies which are carried on in the biological laboratory are supplemented by work at the Marine Station, which is established, from time to time, at suitable points upon the sea-shore.

One of the ordinary fellowships in the University is usually awarded, each year, to a graduate student in zoölogy, and, in the selection of the Adam T. Bruce Fellow, preference is given to those who have held ordinary fellowships in zoölogy.

One of the graduate students of zoölogy may be appointed each year to occupy, during the summer months, the university table at the laboratory of the United States Fish Commission at Wood's Holl.

Whenever researches, or parts of researches, which have been carried on in the laboratory, are completed and ready for publication, the University Circulars provide for the prompt publication of abstracts of the results.

Students looking forward to the degree of Doctor of Philosophy may offer zoölogy as a principal or as a subsidiary subject, but if they have not already pursued studies equivalent to the undergraduate courses in this laboratory, they will be required to take these courses. Those who make zoölogy their principal subject, may select, as subordinates, any two of these subjects, viz., animal physiology, botany, chemistry, geology, physics,—or any other approved combination.

PHYSIOLOGY.

The work in Physiology is directed by Professor W. H. Howell, assisted by Dr. G. P. Dreyer, Associate. The laboratory is contained in the Medical School building adjoining the Hospital, and is well equipped with facilities for demonstrations and special investigations. A course of lectures covering the general and special physiology of the animal body is given each year and is illustrated by a large number of class demonstrations. In connection with this series of lectures, a laboratory course in experimental physiology is offered, extending over a period of twelve weeks and giving the student an introduction to the methods of laboratory technique. A duplicate course, consisting of lectures and laboratory work, has been arranged especially to suit the convenience of graduate students in the Philosophical Department. This course is given in the afternoons from January to June. The general courses of lectures are supplemented by advanced lectures given from time to time upon selected topics; by the work of the physiological seminary, which meets at stated intervals for the special study of certain parts of physiology; and by a weekly journal club intended for the presentation and discussion of the material contained in the current

periodicals. The details of these courses are given in the programme published each year in the University Circulars.

In addition to the physiological literature contained in the library belonging to the laboratory, publications upon physiology and the related scientific branches of medicine may be obtained conveniently from the libraries of the Medical School, the Medical and Chirurgical Faculty of Maryland, and the Surgeon General's office in Washington.

Students looking forward to the degree of Doctor of Philosophy may offer Animal Physiology as a principal or as a subordinate subject. Those who take physiology as a principal subject must present evidence of previous training in physics equivalent to the minor undergraduate course in this University, in chemistry equivalent to the minor and major undergraduate courses, and in biology equivalent to the minor and major undergraduate courses. No preliminary requirements are made for those offering Physiology as a subordinate subject.

The laboratory is open also to special students, graduates in medicine and others, who may wish to undertake laboratory investigations, or who desire to become acquainted with the use of physiological apparatus and the methods of demonstration and research.

ANATOMY.

The work in this department is in charge of Dr. Franklin P. Mall, Professor of Anatomy, with the coöperation of Dr. Ross G. Harrison, Associate Professor of Anatomy, Dr. Charles R. Bardeen, Associate in Anatomy, Dr. J. Williams Lord, Instructor in Anatomy, Dr. Henry McE. Knower, Instructor in Anatomy, and Dr. Mervin T. Sudler, Assistant in Anatomy.

Courses of instruction are provided in the various anatomical sciences — systematic human anatomy, histology, microscopic anatomy, and embryology,—and opportunities are afforded for advanced work and original investigation in these sciences.

The systematic courses of instruction are given in two parallel courses from October 1 to March 15. The first of these courses includes histology, microscopic anatomy, and neurology; the second embraces the subject of gross systematic human anatomy.

These courses are designed for the medical students of the university, but are open to other students who are properly qualified. A more detailed description will be found in the announcement of the Medical School.

The Anatomical Laboratory is a large building, three stories high, having been constructed especially for the teaching of anatomy and for investigation in this subject. The modern machines and apparatus likely to be needed have been provided. Rooms and apparatus for animal experimentation, mechanisms of convenience for drawing and reconstruction, projection apparatus, photomicrographic outfit, and apparatus for work at low temperatures are at hand. A large collection of serial sections through human and animal embryos of different ages is available in connection with research in human embryology, and sets of serial sections, coronal, horizontal and sagittal, through the human rhombencephalon and cerebrum may be used by investigators in neurology. Facilities are afforded for the artistic illustration and publication of the results of researches leading to discoveries of importance. Every encouragement is given to suitably trained individuals who desire to undertake original investigation, either under direction or independently.

PATHOLOGY.

The Pathological Laboratory is a building of four stories on the grounds of the Johns Hopkins Hospital, with which it is connected. The autopsy theatre is in this building, which includes also rooms for pathological histology, bacteriology, experimental pathology, and private work. The museum contains a useful collection of morbid specimens.

The library of the Johns Hopkins Hospital, close to the laboratory, contains a large number of books of reference and receives regularly the chief medical and pathological journals.

Facilities are afforded for elementary and advanced study in general and special pathological anatomy, general pathology, and bacteriology. The instruction in pathology is given by Professors Welch and Barker, and Drs. Harris, MacCallum, and Opie.

The instruction in Pathology for matriculates in the Medical School continues throughout the second year of the regular medical course. It includes general pathology, gross morbid anatomy, pathological histology, and the technique of post-mortem examinations. The laboratory work occupies three half-days a week.

A course in Pathological Histology for physicians is given during the months of May and June. This course presupposes on the part of the student a knowledge of normal histology. In connection with the course, demonstrations of fresh pathological specimens are made and opportunity is afforded to become familiar with the method of making post-mortem examinations. After the study of inflammation, the pathological histology of the different tissues and organs of the body is taken up in regular order. Microscopical sections are given to be stained, mounted, and carefully studied and drawn. The student is encouraged to do as much independent work as his time will permit.

The instruction in Bacteriology is given by Professor Welch, Dr. Harris, and other assistants. In addition to the course for matriculates in the medical department, courses in this subject are given to physicians in May and June. Students are taught the preparation of culture media, the principles of disinfection and sterilization, methods of cultivating, staining, and studying bacteria, particularly those of a pathogenic nature, and the biological examination of the air, water, and soil. This department is fully supplied with the requisite apparatus and cultures for bacteriological work.

In addition to the regular courses for medical students and physicians, opportunity is afforded for advanced work and special research in pathology and bacteriology. For these purposes the Pathological Laboratory is well equipped with the necessary apparatus and material. Special subjects for research will be assigned to those who wish and are prepared to undertake original investigation.

Instruction in Clinical Microscopy is given to physicians, during May and June, in the Clinical Laboratory.

The Pathological Laboratory being upon the same grounds with the Johns Hopkins Hospital and Dispensary, the opportunities are convenient and readily accessible for combining clinical studies with the work in pathology.

Three associations, the Hospital Medical Society, the Historical Club, and the Journal Club, meet in the assembly room of the Hospital, one each Monday evening. The libraries of the University and the Hospital are supplied with a large collection of medical books and periodicals, which are accessible to the student.

The Johns Hopkins Hospital Bulletin, issued monthly, and the Johns Hopkins Hospital Reports contain the proceedings of the Hospital societies, articles by the medical staff, and the results of researches conducted in the Hospital and the medical laboratories.

The Journal of Experimental Medicine, now in its fifth volume, under the editorial direction of Professor Welch, also contains reports of researches carried on in the physiological and pathological laboratories here and elsewhere.

Drawing.

The instruction in drawing is arranged to give the students a general knowledge of the subject, as far as the time at command will permit, while those who show particular aptitude are encouraged to follow special courses. The instruction is given by Mr. S. E. Whiteman.

Undergraduates take up the subject as one of their required studies, unless they can show a fair degree of proficiency attained elsewhere. Graduate and special students are allowed the privilege of receiving such instruction as may be most helpful to them in their respective fields of work. Those who look forward to scientific pursuits, especially those who study natural history, physics, applied mathematics and mechanics, find these courses of great value.

The undergraduate course is designed to form part of the general education of the student. It aims to impart such knowledge of the principles of drawing, with extended practice in the application of the same, as shall best serve to educate the eye and to train the hand,—the one to see correctly, and the other to express accurately the appearance of forms. The course includes freehand and mechanical drawing. Students may have the option of freehand drawing alone throughout the year, and drawings made

in the course in systematic botany may be accepted as an equivalent for the work of the last twelve weeks of the course in freehand drawing. In the freehand drawing, the student is at once set to draw from models, beginning with elementary forms, and proceeding through a series of exercises till he is able to produce a fair drawing of any simple object or group of objects, in outline and in light and shade. The chief mediums used are charcoal and crayon. The use of drawing instruments is taught, and the constructive processes are applied which are in general use in instrumental drawing. The elements of descriptive geometry are afterwards taken up in this course, and the fundamental principles of orthographic, scenographic, and isometric projections are worked out and applied in carefully executed drawings, finished in ink. Precision and fidelity are insisted on and no careless work is allowed, nor is any copying permitted. Each student receives the personal attention and guidance of the instructor. With the exactness of pen-and-ink work on the one hand and the freedom of charcoal on the other, the student attains a power of graphic expression which will be of service to him in almost any pursuit. The instruction in mechanical drawing will be found of great value to students who are looking forward to courses in engineering or applied science.

The special instruction in drawing is necessarily of such a nature as is best adapted to the requirements of the individual student: freehand drawing from natural forms, in charcoal and in water color; from plaster casts, in charcoal and crayon; advanced work in descriptive geometry. This special instruction includes work for students preparing for the courses in Medicine and Biology, but of a character more directly applied to these studies, with a view to illustrating the work of these courses.

Public Speaking and Class Debate.

Undergraduate students in their first year are trained in the art of public speaking and public reading, and this training is continued throughout the second and third years of the college course. The art of debate and extemporaneous speaking is practiced in a so-called College Congress, in which instruction is given

in parliamentary law, under the direction of Dr. Guy Carleton Lee, who guides the students in the collection of materials for debate and in the preparation of briefs. Special facilities are offered by the historical department for the use of documents, pamphlets, and newspaper articles. Opportunity is offered to graduate students for instruction and practice in extemporaneous speaking and public lecturing.

Physical Training.

A careful examination of each undergraduate is made by the director, and such exercises are prescribed as are most suitable to his needs. Systematic exercise is required of all undergraduates during their first year of residence; in subsequent years this is not compulsory. The use of the gymnasium is optional in the case of graduate students.

The Gymnasium is a new building, 127 feet long by 35 feet wide, and is provided with convenient lockers, baths, etc., as well as with the newest forms of apparatus. Adjoining the gymnasium proper is a "Cage,"—an enclosed and covered space for practice in running and in athletic sports,—127 feet long, 66 feet wide, and 30 feet high.

In order to prevent ill-advised participation in outdoor sports, and to guard against over-indulgence in training, the athletic teams of the university are under the control of the director of Physical Training. No student is allowed to become a member of a team unless he has made the required strength test.

THE DEGREE OF DOCTOR OF PHILOSOPHY.

REGULATIONS.

[Adopted by the Board of University Studies, February 26, 1898.]

The degree of Doctor of Philosophy is offered to students who have followed advanced courses of university study for a period of not less than three years, under suitable guidance and favorable conditions, and who have submitted an acceptable dissertation and passed the prescribed examinations.

In order to be accepted by the Board of University Studies as a candidate for the degree of Doctor of Philosophy, the student must give evidence that he has completed such a liberal undergraduate course of academic study antecedent to the baccalaureate degree as is offered by colleges of good standing.

He must then follow advanced studies in the departments of knowledge which he may have chosen, and these studies must be pursued without serious distractions, under qualified teachers, for a period of at least three years. Private study, or study pursued at a distance from libraries and laboratories and other facilities, will not be considered as equivalent to university study.

The Board reserves the right to decide in each case whether the antecedent training has been satisfactory, and, if any of the years of advanced work have been passed by the candidate away from this university, whether they may be rightly regarded as spent in university studies under suitable guidance and favorable conditions.

In order that students may receive the definite counsel of the proper authorities with respect to their future course, they are advised to offer themselves as "candidates" for this degree as soon, after entrance, as their purposes are formed. At least one academic year must be passed in this university, and in every case the year immediately preceding the final examinations.*

* In case a student has complied with all the conditions and has practically completed his preparation for the final examinations, and is prevented by good reason from presenting himself, he should ask the Board to appoint a later day for his examination.

Correspondence on the foregoing matters should be addressed to the Registrar of the University.

Requirements for the Degree.

Every candidate for the degree of Doctor of Philosophy must select one principal and two subordinate subjects, the combination to be approved by the Board of University Studies. These must be pursued without serious distraction and under the general direction of the Professor in the principal subject of study, who is the official adviser of the candidate. The student must prepare a satisfactory dissertation, and must pass with credit certain written and oral examinations in his chosen departments of study.

Acceptance of the Candidate.

A student wishing to be considered a candidate for the degree must make formal application to the Board of University Studies to be enrolled, and must be accepted by the Board at least an academic year * in advance of the time he expects to present himself for examination in his principal subject. A blank form is provided for the purpose. After filling out this form, the student must present himself before the examiners in French and German at one of the stated examinations in these subjects. When their certificates are affixed to his application, he is to obtain the signatures of approval of the Professors in the departments concerned. The application, thus completed, is then to be presented to the Board for its final action.

Requirements in French and German.

a. The candidate must be able to translate French and German at sight. Familiarity with journals and monographs pertaining to his principal department of study will satisfy this requirement.

b. Examinations are held in these languages at the middle and end of each academic year, at one of which times the candidate must present himself. In October, there is provided a special examination for students who were not connected with the University during the previous academic year.

* The acceptance of a candidate by the Board at its October meeting is regarded as an acceptance at the beginning of an academic year.

c. Students who have not acquired a reading knowledge of these languages before engaging in graduate study are advised to pursue a course organized for that purpose, during their first year. Absolving the class examination at the end of this course will be construed as satisfying this requirement for the degree of Doctor of Philosophy.

Requirements in the Subordinate Subjects.

The subordinate subjects are of two grades and are known respectively as the first subordinate and the second subordinate. Each of these subjects shall be followed by the candidate for a portion of his time, during at least one year of graduate study.

It is impossible to define with precision the amount of time to be devoted to the subordinate subjects. In general, however, it may be stated that the two subordinate subjects, taken together, should represent one year's work, two-thirds of this time being devoted to the first subordinate subject.

Dissertation.

a. The dissertation must be written upon a theme approved by the adviser of the candidate, and must be completed and submitted to the Board at least four weeks before the written examinations in the principal subject are held, unless the adviser recommends a later date. The dissertation must be either printed or legibly written, paged, and bound according to a prescribed form, which can be seen in the library: this copy to be placed on file and to become the property of the University.

b. The Board shall designate two or more referees, who shall present a written report on the dissertation,—said report to be filed. In the intervals between the sessions of the Board, the President shall have power to appoint the referees.

c. The candidate shall print the dissertation in full or in part, —if in part, to the extent of not less than twenty-four octavo pages,—under the supervision of his adviser, within one year of the time when the degree is conferred, and shall present one hundred and fifty copies of the work to the University. A biographical sketch of the author shall be appended to the dissertation in both its manuscript and its printed form.

d. If the dissertation has not already been printed, a deposit of $50, to insure its printing within the specified period, shall be made by the candidate at the treasurer's office before the degree is conferred. This deposit shall be returned to him when the printed copies are presented to the University.

e. If the printed copies be not presented to the University within the specified time, the Board may declare the deposit forfeited, and may apply the amount in printing such portions as the adviser may deem proper.

Examinations.

a. The candidate shall be given written examinations in the principal subject and, wherever practicable, in both subordinate subjects, and an oral examination, before the Board, in the principal and in the first subordinate subject.

b. The candidate shall be permitted to take the written examinations in both the first and second subordinates at the end of the respective years in which the courses in these subjects were completed, or whenever he is ready, at the discretion of the examiner.

c. The Professors in the several departments of study shall prepare written reports on the result of the examinations. These reports together with the questions and answers shall be laid before the Board at the oral examination and the reports filed.

d. In the written examinations no one session shall exceed five hours.

e. In the oral examinations before the Board, the time allotted to each examination shall be one hour, and three-quarters of this time shall be devoted to the principal subject.

Degree.

The names of the candidates found worthy of the degree will be submitted to the Board of Trustees, and with their approbation the degree will be publicly conferred.

COLLEGIATE INSTRUCTION.

In addition to the instruction provided for graduate students, the Johns Hopkins University makes ample provision for collegiate instruction. Its work was originally organized to meet the needs of those desiring a systematic discipline in liberal studies, as well as to furnish additional opportunities to persons who had already received a college training. The courses offered to undergraduates are maintained with no less care and thoroughness than those intended for advanced students; the oldest and most experienced members of the academic staff coöperate in the conduct of them. No small part of the influence and usefulness of the University is in connection with the collegiate classes, in which, since 1876, more than fourteen hundred students have been enrolled.

Certain features of organization and administration have contributed to the effectiveness of the undergraduate work. The scrupulous observance of the distinction between the disciplinary methods appropriate to college teaching and the freer methods of advanced instruction; the "group" arrangement of studies, combining a reasonable liberty of choice with a sufficient exercise of authority; the facilities afforded young men of superior capacity for carrying their studies beyond the requirements of graduation; the influence upon younger pupils of the presence of a large body of graduate scholars conducting investigations in all the great departments of learning:—these conditions have proved favorable to the development of earnestness and scholarly devotion.

ARRANGEMENT OF COURSES.

The courses of study open to undergraduates are arranged in (a) the curriculum prescribed for candidates for matriculation; (b) the several "groups" offered to matriculated students.

(a). Curriculum prescribed for Candidates for Matriculation.

The standard of matriculation maintained at the Johns Hopkins University is considerably higher than that required elsewhere. In the Baltimore City College, and in several private schools of Baltimore, young men may be prepared to pass the matriculation examination; but many are unable to secure, in the places where they reside, instruction which will fit them to meet the requirements here exacted. As a consequence, many students who have desired to enter the University have been unable to do so, and some who have entered have done so only under the embarrassment and vexation of "conditions." In order to meet this difficulty, terms of admission are now designated (see page 172), corresponding to the terms of admission to other colleges of established reputation, and students who satisfy these requirements are admitted to a prescribed course of study adapted to prepare them, at the end of a year, for full matriculation.

The course of study prescribed for these students is as follows:—

1. Mathematics. *Four hours weekly.*
   - Algebra (special topics).
   - Solid Geometry.
   - Plane Trigonometry.
   - Analytic Geometry (straight line and loci).

2. Latin. *Three hours weekly.*
   - Cicero, *De Senectute.*
   - Sallust, *Catiline.*
   - Ovid, *Heroides.*
   - Vergil, *Georgics* (selections).
   - Sight Reading and Prose Composition.

3. GREEK. *Three hours weekly.*
   Homer, *Iliad*, book vi.
   Herodotus, book vii.
   Sight Reading and Prose Composition.

4. GERMAN OR FRENCH.
   (*a*) For students offering Greek at entrance. *Three hours weekly.*
   German: Thomas's *Practical German Grammar;* Super's *Elementary German Reader;* E. S. Buchheim's *Short German Plays* (Clarendon Press); Heyse, *L'Arrabbiata.*
   French: Grandgent's *Short Grammar*, and *Exercises* based on Super's *French Reader;* Super's *French Reader;* J. Verne, *L'Expédition de la Jeune-Hardie;* Thiers, *Expédition de Bonaparte en Egypte.*
   After completing one of these courses, students are required to take Minor A in their groups.
   (*b*) For students not offering Greek at entrance. *Four hours weekly.*
   The minor course, Class A, in either German or French.

5. RHETORIC AND ENGLISH COMPOSITION. *Three hours weekly.*
   Principles of Rhetoric.
   Rhetorical Analysis.
   Practice in writing.
   Students taking Greek may defer this course until after matriculation.

6. FREEHAND AND MECHANICAL DRAWING.

(b). GROUPS OFFERED TO MATRICULATED STUDENTS.

After matriculation, the student is expected to follow one of several distinct and parallel courses of instruction known as "groups." These are seven in number, each comprising (1) studies common to all the groups and required of all undergraduates, (2) studies peculiar to a group, (3) optional studies. The groups are assumed to be equally honorable and difficult, and are intended to combine liberty of election on the part of the student with sufficient exercise of authority to prevent discursive and ill-considered work. Each group contains two principal studies, both of which extend through two years of instruction. These are: (1) Latin and Greek, (2) Mathematics and Physics, (3) Chemistry and Biology, (4) Geology and Biology, (5) Latin and Mathematics, (6) History and Political Science, (7) English, with German or French.

The student may follow strictly the group which he has chosen; or, under the regulations hereinafter stated (see page 164, section *b*),

he may substitute, with the approval of his adviser, other studies for two—in certain cases, for three—of the courses laid down in his group.

Students who have passed French or German as the principal subject in place of Greek for matriculation, are required to substitute for it some other subject, or to take an advanced course in one of these languages. Any undergraduate course approved by the adviser may be chosen for this purpose.

In these ways the course of study in the several groups may be modified; while those who wish to concentrate their attention in the more thorough study of a special field, will find it advantageous to accept the groups as they stand.

The optional courses in Science and Literature vary from year to year, and may be followed by the student according to his tastes and acquisitions. The arrangements of the University allow those who have capacity for more than is prescribed, to broaden their studies by attendance upon the public lectures from time to time provided; and, if time permits, they may also take longer or shorter courses not actually required of them.

Each group contains twelve courses. Eight of these are four-hour courses,—each representing four hours of class-work weekly for a year. Of the others, two—the course in Rhetoric and that in English Literature—are three-hour courses; one is an elective of two hours in the third year; and one—the course in Philosophy—occupies five hours weekly through one year. Rhetoric, English Literature, and Philosophy form a part of each group. A course in Economics and History is also included in each group. Each group contains at least one year of French and one year of German, and at least one year of attention to a scientific subject, including the performance of the work prescribed in the laboratory. The instruction in Drawing and in Vocal and Physical Culture is additional to these twelve courses.

1. *The Classical Group.*

The Classical group corresponds in the main to what has been the ordinary course of study in our colleges, the requisite mathematics having been secured before matriculation. The emphasis is laid upon Latin and Greek, each of which is studied two years.

Rhetoric, English Literature, French, German, one subject involving a year of laboratory work, Economics and History, Comparative Philology, Philosophy, and an elective subject occupying two hours weekly in the third year, are also included, together with Drawing and Vocal and Physical Culture.

2. *The Mathematical-Physical Group.*

The Mathematical-Physical group substitutes two years of Mathematics and two years of Physics for Latin and Greek, adding also a year of Chemistry, the other studies being the same as in the classical group. This course affords a good basis for the subsequent study of Electricity, Engineering, Astronomy, and other subjects largely dependent on the science of Mathematics.

3. *The Chemical-Biological, or Preliminary Medical, Group.*

The Chemical-Biological group prepares the student to enter at once upon the studies of the Johns Hopkins Medical School, and is also a good preparation for the study of medicine elsewhere, or for the professional study of Natural History. It provides instruction in Physics, Chemistry, and Biology, with laboratory practice. The requirements in French, German, English, History, and Philosophy are the same as in the other groups.

4. *The Geological-Biological Group.*

The Geological-Biological group furnishes a good fundamental training in the sciences, providing a year's course each in Biology, Physics, and Chemistry, and a two-years' course in Geology. It affords a broad education in scientific studies, and prepares the student both to appreciate scientific methods, and to pursue advanced courses in Geology, later, should he so desire.

5. *The Latin-Mathematical Group.*

The Latin-Mathematical group affords a good fundamental training, without the study of Greek. It differs from the classical group only in substituting Mathematics for Greek.

6. *The Historical-Political Group.*

The Historical-Political group furnishes a basis for the subsequent study of law. It omits Greek and retains but one year of Latin, providing two years of History and two years of Economic and Political Science.

7. *The Modern Language Group.*

The Modern Language group is designed for those who wish a literary training based upon the modern rather than upon the ancient languages. It substitutes for Greek two years of English, and, retaining one year of Latin, substitutes for the other an additional year of either French or German. If the student is already proficient in French or German, he may substitute a year of Spanish or Italian for one of these languages.

Detailed statements respecting the groups are given in the succeeding pages.

First Group. (*Classical*).

First Year.

LATIN.

CLASS WORK. (9 a. m.) *Four hours weekly.*

Livy (two books).
Horace (selections).
Prose Composition.

PRIVATE READING:

Cæsar, *Bellum Civile* (book i).
Tacitus, *Germania*.
Ovid, *Fasti* (selections).
Vergil, *Aeneid* (books ix, xii).

RHETORIC AND ENGLISH COMPOSITION. (12 m.) *Three hours weekly.*

Principles of Rhetoric.
Rhetorical Analysis.
Practice in Writing.

GREEK.

CLASS WORK. (1 p. m.) *Four hours weekly.*

Lysias (vii, xii).
Plato, *Apology*.
Euripides (one play).
Prose Composition.

PRIVATE READING:

Xenophon, *Hellenica* (book i).
Homer, *Odyssey* (books i, ix, x).

LABORATORY COURSE. *Four hours class-work weekly.*

Chemistry* (9 a.m.), *or*
Physics (10 a. m.), *or*
Biology (10 a. m.).
} Lectures, recitations, and laboratory work.

Second Year.

LATIN.

CLASS WORK. (10 a.m.) *Four hours weekly.*

Juvenal.
Martial.
Terence (one play).
Plautus (one play).
Prose Composition.

PRIVATE READING:

Pliny (select Letters).
Plautus, *Miles Gloriosus*.

ENGLISH LITERATURE. *Three hours weekly.*

Outline History.
Critical Study of Important Writers.
Private Reading.

GREEK.

CLASS WORK. (12 m.) *Four hours weekly.*

Demosthenes, *Oratio in Leptinem*.
Selections from the elegiac, melic, and iambic poets.
Sophocles (one play).
Reading at sight.
Prose Composition.

PRIVATE READING:

Aeschylus, *Prometheus*.
Aristophanes (one play).

GERMAN. (11 a. m.) *Four hours weekly.*

Otis's *Elementary German*.
Whitney's *Grammar*.
Brandt's *German Reader*.
Von Moser, *Der Bibliothekar*.
Goethe, *Egmont*.
Prose Composition.

Third Year.

PHILOSOPHY. (11 a. m.) *Five hours weekly.*

Logic, Psychology, and Ethics.

HISTORY AND ECONOMICS. (10 a. m.) *Four hours weekly.*

Historical Politics. *Two hours.*
Elements of Economics.
Applied Economics.
} *Two hours.*

ELECTIVE COURSE.† *Two hours weekly.*

FRENCH. (12 m.) *Four hours weekly.*

Joynes, *Minimum French Grammar*; Malot, *Sans Famille*; Erckmann-Chatrian, *Le Conscrit de 1813*; Mérimée, *Colomba*; Legouvé, *La Cigale chez les Fourmis*; Augier, *Le Gendre de M. Poirier*; Pailleron, *Le Monde où l'on s'ennuie*.

COMPARATIVE PHILOLOGY.

One hour weekly.

*If Chemistry be chosen, it should be taken in the second year, and German in the first year.

†For 1900–1901, elective courses are offered in the following subjects: Differential Equations, Zoölogy or Botany, Hebrew, Latin, Greek, German, French, Italian, Spanish, English Literature, History of Philosophy (one hour).

Second Group. (*Mathematical-Physical*).

First Year.

GERMAN. (11 a. m.) *Four hours weekly.*
- Classics: Schiller, *Maria Stuart;* Goethe, *Hermann und Dorothea.*
- Prose Reading: Chamisso, *Peter Schlemihl;* Baumbach, *Erzählungen und Märchen.*
- Composition.
- Sight Reading.
- Private Reading: Gutzkow, *Zopf und Schwert.*

MATHEMATICS. *Four hours weekly.*
- Plane Analytic Geometry.
- Differential and Integral Calculus.

CHEMISTRY. (9 a. m.) *Four hours class-work weekly.*
- General Chemistry.
- Laboratory Work. (*Five hours weekly.*)

RHETORIC AND ENGLISH COMPOSITION. (12 m.) *Three hours weekly.*
- Principles of Rhetoric.
- Rhetorical Analysis.
- Practice in Writing.

Second Year.

PHYSICS. (10 a. m.) *Four hours class-work weekly.*
- Elementary Mechanics.
- Sound.
- Heat.
- Electricity and Magnetism.
- Light.
- Laboratory Work. (*Three hours weekly.*)

MATHEMATICS. (9 a. m.) *Four hours weekly.*
- Determinants.
- Differential and Integral Calculus (special topics).
- Theory of Equations.
- Elements of Projective Geometry.
- Analytic Geometry of Three Dimensions.

FRENCH. (12 m.) *Four hours weekly.*
- Hugo, *Hernani;* Molière, *Les Femmes Savantes;* Corneille, *Le Cid;* Sandeau, *Mlle. de la Seiglière;* Dumas, *L'Ami des Femmes;* Scribe, *Bataille des Dames;* De Musset, *On ne Badine pas avec l'Amour;* Rostand, *Cyrano de Bergerac.*
- Short Outline of French Literature (XVII–XIX Centuries).
- Prose Composition and Syntax.
- Exercises in Pronunciation, Recitation, and Conversation; Oral and Written Reports in French; Private Reading.

ENGLISH LITERATURE. *Three hours weekly.*
- Outline History.
- Critical Study of Important Writers.
- Private Reading.

Third Year.

PHILOSOPHY. (11 a. m.) *Five hours weekly.*
- Logic, Psychology, and Ethics.

HISTORY AND ECONOMICS. (10 a. m.) *Four hours weekly.*
- Historical Politics. *Two hours.*
- Elements of Economics. } *Two hours.*
- Applied Economics. }

PHYSICS. (12 m.) *Four hours class-work weekly.*
- Mechanics.
- Thermodynamics.
- Electricity and Magnetism.
- Physical Optics.
- Laboratory Work. (*Five hours weekly.*)

ELECTIVE COURSE.* *Two hours weekly.*

*For 1900–1901, elective courses are offered in the following subjects: Differential Equations, Zoölogy or Botany, Hebrew, Latin, Greek, German, French, Italian, Spanish, English Literature, History of Philosophy (one hour).

Students who have passed French or German as the principal subject in place of Greek for matriculation, must substitute some other four-hour course.

Third Group. (*Chemical-Biological*).

First Year.

PHYSICS. (10 a. m.) *Four hours class-work weekly.*
- Elementary Mechanics.
- Heat.
- Electricity and Magnetism.
- Sound.
- Light.
- Laboratory Work. (*Three hours weekly.*)

RHETORIC AND ENGLISH COMPOSITION. (12 m.) *Three hours weekly.*
- Principles of Rhetoric.
- Rhetorical Analysis.
- Practice in Writing.

CHEMISTRY. (9 a. m.) *Four hours class-work weekly.*
- General Chemistry.
- Laboratory Work. (*Five hours weekly.*)

GERMAN. (11 a. m.) *Four hours weekly.*
- Classics: Schiller, *Maria Stuart;* Goethe, *Hermann und Dorothea.*
- Prose Reading: Chamisso, *Peter Schlemihl;* Baumbach, *Erzählungen und Märchen.*
- Composition.
- Sight Reading.
- Private Reading: Gutzkow, *Zopf und Schwert.*

Second Year.

CHEMISTRY. (9 a. m.) *Four hours class-work weekly.*
- Advanced Inorganic Chemistry.
- Chemistry of Carbon Compounds.
- Laboratory Work. (*Five hours weekly.*)

BIOLOGY. (10 a. m.) *Four hours class-work weekly.*
- General Biology.
- Elements of Systematic Botany.
- Laboratory Work. (*Five hours weekly.*)

ENGLISH LITERATURE. *Three hours weekly.*
- Outline History.
- Critical Study of Important Writers.
- Private Reading.

FRENCH. (12 m.) *Four hours weekly.*
- Hugo, *Hernani;* Molière, *Les Femmes Savantes;* Corneille, *Le Cid;* Sandeau, *Mlle. de la Seiglière;* Dumas, *L'Ami des Femmes;* Scribe, *Bataille des Dames;* De Musset, *On ne Badine pas avec l'Amour;* Rostand, *Cyrano de Bergerac.*
- Short Outline of French Literature (XVII-XIX Centuries).
- Prose Composition and Syntax.
- Exercises in Pronunciation, Recitation, and Conversation; Oral and Written Reports in French.
- Private Reading.

Third Year.

BIOLOGY. (9 a. m.) *Four hours class-work weekly.*
- Elements of Zoölogy and Comparative Anatomy.
- Elements of Botany.
- Embryology.
- Laboratory Work. (*Five hours weekly.*)

ELECTIVE COURSE.† *Two hours weekly.*

PHILOSOPHY. (11 a. m.) *Five hours weekly.*
- Logic, Psychology, and Ethics.

HISTORY AND ECONOMICS. (10 a. m.) *Four hours weekly.*
- Historical Politics. *Two hours.*
- Elements of Economics. } *Two hours.*
- Applied Economics. }

† For 1900–1901, elective courses are offered in the following subjects: Differential Equations, Hebrew, Latin, Greek, German, French, Italian, Spanish, English Literature, History of Philosophy (one hour).

Students who have passed French or German as the principal subject in place of Greek for matriculation, must substitute some other four-hour course.

Fourth Group. (*Geological-Biological.*)

First Year.

CHEMISTRY. (9 a. m.) *Four hours class-work weekly.*
- General Chemistry.
- Laboratory Work. (*Five hours weekly.*)

GERMAN. (11 a. m.) *Four hours weekly.*
- Classics: Schiller, *Maria Stuart;* Goethe, *Hermann und Dorothea.*
- Prose Reading: Chamisso, *Peter Schlemihl;* Baumbach, *Erzählungen und Märchen.*
- Composition.
- Sight Reading.
- Private Reading: Gutzkow, *Zopf und Schwert.*

PHYSICS. (10 a. m.) *Four hours class-work weekly.*
- Elementary Mechanics.
- Heat.
- Electricity and Magnetism.
- Sound.
- Light.
- Laboratory Work. (*Three hours weekly.*)

RHETORIC AND ENGLISH COMPOSITION. (12 m.) *Three hours weekly.*
- Principles of Rhetoric.
- Rhetorical Analysis.
- Practice in Writing.

Second Year.

GEOLOGY. (1 p. m.) *Four hours class-work weekly.*
- Physical Geology.
- Outline Paleontology.
- Historical Geology.
- Laboratory Work. (*Three hours weekly*).
- Excursions.

BIOLOGY. (10 a. m.) *Four hours class-work weekly.*
- General Biology.
- Elements of Systematic Botany.
- Laboratory Work. (*Five hours weekly.*)

FRENCH. (12 m.) *Four hours weekly.*
- Hugo, *Hernani;* Molière, *Les Femmes Savantes;* Corneille, *Le Cid;* Sandeau, *Mlle. de la Seiglière;* Dumas, *L'Ami des Femmes;* Scribe, *Bataille des Dames;* De Musset, *On ne Badine pas avec l'Amour;* Rostand, *Cyrano de Bergerac.*
- Short Outline of French Literature (XVII-XIX Centuries.)
- Prose Composition and Syntax.
- Exercises in Pronunciation, Recitation, and Conversation; Oral and Written Reports in French; Private Reading.

ENGLISH LITERATURE. *Three hours weekly.*
- Outline History.
- Critical Study of Important Writers.
- Private Reading.

Third Year.

PHILOSOPHY. (11 a. m.) *Five hours weekly.*
- Logic, Psychology, and Ethics.

HISTORY AND ECONOMICS. (10 a. m.) *Four hours weekly.*
- Historical Politics. *Two hours.*
- Elements of Economics. } *Two hours.*
- Applied Economics. }

GEOLOGY. (12 m.) *Four hours class-work weekly.*
- Crystallography.
- Descriptive Mineralogy.
- Elementary Petrography.
- Laboratory Work. (*Three hours weekly*).
- Excursions.

ZOOLOGY *or* BOTANY. (Elective.)* *Two hours weekly.*

*One of the following two-hour elective courses may be substituted for Zoology or Botany,—Differential Equations, Hebrew, Latin, Greek, German, French, Italian, Spanish, English Literature.

Students who have passed French or German as the principal subject in place of Greek for matriculation, must substitute some other four-hour course.

Fifth Group. (*Latin-Mathematical.*)

First Year.

LATIN.

CLASS WORK. (9 a.m.) *Four hours weekly.*

Livy (two books).
Horace (selections).
Prose Composition.

PRIVATE READING:

Cæsar, *Bellum Civile* (book i).
Tacitus, *Germania.*
Ovid, *Fasti* (selections).
Vergil, *Aeneid* (books ix, xii).

MATHEMATICS. *Four hours weekly.*

Plane Analytic Geometry.
Differential and Integral Calculus.

RHETORIC AND ENGLISH COMPOSITION. (12 m.) *Three hours weekly.*

Principles of Rhetoric.
Rhetorical Analysis.
Practice in Writing.

LABORATORY COURSE. *Four hours class-work weekly.*

Chemistry* (9 a.m.), *or* } Lectures, recitations, and laboratory work.
Physics (10 a. m.), *or* }
Biology (10 a. m.). }

Second Year.

LATIN.

CLASS WORK. (10 a.m.) *Four hours weekly.*

Juvenal.
Martial.
Terence (one play).
Plautus (one play).
Reading at Sight.
Prose Composition.

PRIVATE READING:

Pliny (select Letters).
Plautus, *Miles Gloriosus.*

ENGLISH LITERATURE. *Three hours weekly.*

Outline History.
Critical Study of Important Writers.
Private Reading.

MATHEMATICS. (9 a. m.) *Four hours weekly.*

Determinants.
Differential and Integral Calculus (special topics).
Theory of Equations.
Elements of Projective Geometry.
Analytic Geometry of Three Dimensions.

GERMAN. (11 a. m.) *Four hours weekly.*

Classics: Schiller, *Maria Stuart;* Goethe, *Hermann und Dorothea.*
Prose Reading: Chamisso, *Peter Schlemihl;* Baumbach, *Erzählungen und Märchen.*
Composition.
Sight Reading.
Private Reading: Gutzkow, *Zopf und Schwert.*

Third Year.

FRENCH. (12 m.) *Four hours weekly.*

Hugo, *Hernani;* Molière, *Les Femmes Savantes;* Corneille, *Le Cid;* Sandeau, *Mlle. de la Seiglière;* Dumas, *L'Ami des Femmes;* Scribe, *Bataille des Dames;* De Musset, *On ne Badine pas avec l'Amour;* Rostand, *Cyrano de Bergerac.*
Short Outline of French Literature (XVII–XIX Centuries).
Composition and Syntax.
Exercises in Pronunciation, Recitation, and Conversation; Oral and Written Reports in French; Private Reading.

PHILOSOPHY. (11 a. m.) *Five hours weekly.*

Logic, Psychology, and Ethics.

HISTORY AND ECONOMICS. (10 a. m.) *Four hours weekly.*

Historical Politics. *Two hours.*
Elements of Economics. } *Two hours.*
Applied Economics. }

ELECTIVE COURSE.† *Two hours weekly.*

* If Chemistry be chosen, it should be taken in the third year, German in the first year, and French in the second year.

† For 1900–1901, elective courses are offered in the following subjects: Differential Equations, Zoölogy or Botany, Hebrew, Latin, Greek, German, French, Italian Spanish, English Literature, History of Philosophy (one hour).

Students who have passed French or German as the principal subject in place of Greek for matriculation, must substitute some other four-hour course.

Sixth Group. (*Historical-Political.*)

First Year.

GERMAN. (11 a. m.) *Four hours weekly.*
- Classics: Schiller, *Maria Stuart;* Goethe, *Hermann und Dorothea.*
- Prose Reading: Chamisso, *Peter Schlemihl;* Baumbach, *Erzählungen und Märchen.*
- Composition.
- Sight Reading.
- Private Reading: Gutzkow, *Zopf und Schwert.*

RHETORIC AND ENGLISH COMPOSITION. (12 m.) *Three hours weekly.*
- Principles of Rhetoric.
- Rhetorical Analysis.
- Practice in Writing.

ANCIENT HISTORY. (10 a. m.) *Four hours weekly.*
- Greece.
- Rome.
- Readings from Classical Historians.

LATIN.

CLASS WORK. (9 a. m.) *Four hours weekly.*
- Livy (two books).
- Horace (selections).
- History of Roman Literature.
- Sight Reading.

PRIVATE READING:
- Cæsar, *Bellum Civile* (book i).
- Tacitus, *Germania.*
- Ovid, *Fasti* (selections).
- Vergil, *Aeneid* (books ix, xii).

Second Year.

HISTORY. (11 a. m.) *Four hours weekly.*
- Civilization. *Two hours.*
- Reformation. } *Two hours.*
- France and Germany. }

ECONOMICS. (10 a. m.) *Four hours weekly.*
- Elements of Economics. } *Two hours.*
- Money; Taxation. }
- History of Economic Thought. } *Two hours.*
- Tariff; Transportation. }

ENGLISH LITERATURE. *Three hours weekly.*
- Outline History.
- Critical Study of Important Writers.
- Private Reading.

FRENCH. (12 m.) *Four hours weekly.*
- Hugo, *Hernani;* Molière, *Les Femmes Savantes;* Cornellie, *Le Cid;* Sandeau, *Mlle. de la Seiglière;* Dumas, *L'Ami des Femmes;* Scribe, *Bataille des Dames;* De Musset, *On ne Badine pas avec l'Amour;* Rostand, *Cyrano de Bergerac.*
- Short Outline of French Literature (XVII–XIX Centuries).
- Composition and Syntax.
- Exercises in Pronunciation, Recitation, and Conversation; Oral and Written Reports in French; Private Reading.

Third Year.

POLITICS. (12 m.) *Four hours weekly.*
- English Constitutional Law and History.
- American Constitutional Law and History.

PHILOSOPHY. (11 a. m.) *Five hours weekly.*
- Logic, Psychology, and Ethics.

LABORATORY COURSE. *Four hours class-work weekly.*
- Chemistry (9 a. m.), *or* } Lectures, recitations, and laboratory work.
- Physics (10 a. m.), *or* }
- Biology (10 a. m.). }

ELECTIVE COURSE.* *Two hours weekly.*

* For 1900–1901, elective courses are offered in the following subjects: Differential Equations, Zoölogy or Botany, Hebrew, Latin, Greek, German, French, Italian, Spanish, English Literature, History of Philosophy (one hour).

Students who have passed French or German as the principal subject in place of Greek for matriculation, must substitute some other four-hour course.

Seventh Group. (*Modern Languages.*)

First Year.

LATIN. (9 a. m.) *Four hours weekly.*
Livy (two books).
Horace (selections).
Prose Composition.
Private reading: Cæsar, *Bellum Civile* (book i); Tacitus, *Germania;* Ovid, *Fasti* (selections); Vergil, *Aeneid* (books ix, xii).

ENGLISH. (1 p. m.) *Four hours weekly.*
Early English Texts.
English Literature.

LABORATORY COURSE. *Four hours class-work weekly.*
Chemistry*(9 a.m.), *or* / Physics (10 a. m.), *or* / Biology (10 a. m.). } Lectures, recitations, and laboratory work.

RHETORIC AND ENGLISH COMPOSITION. (12 m.) *Three hours weekly.*
Principles of Rhetoric.
Rhetorical Analysis.
Practice in Writing.

Second Year.

GERMAN. (11 a. m.) *Four hours weekly.*
Classics: Schiller, *Maria Stuart;* Goethe, *Hermann und Dorothea.*
Prose Reading: Chamisso, *Peter Schlemihl;* Baumbach, *Erzählungen und Märchen.*
Composition; Sight Reading.
Private Reading: Gutzkow, *Zopf und Schwert.*

HISTORY AND ECONOMICS. (10 a. m.) *Four hours weekly.*
Historical Politics. *Two hours.*
Elements of Economics. / Applied Economics. } *Two hours.*

FRENCH. (12 m.) *Four hours weekly.*
Hugo, *Hernani;* Molière, *Les Femmes Savantes;* Corneille, *Le Cid;* Sandeau, *Mlle. de la Seiglière;* Dumas, *L'Ami des Femmes;* Scribe, *Bataille des Dames;* De Musset, *On ne Badine pas avec l'Amour;* Rostand, *Cyrano de Bergerac.*
Short Outline of French Literature (XVII–XIX Centuries).
Composition and Syntax.
Exercises in Pronunciation, Recitation, and Conversation; Oral and Written Reports in French; Private Reading.

ELECTIVE COURSE. *Three hours weekly.*
[See foot-note, page 160.]

Third Year.

A.

FRENCH. (10 a. m.) *Four hours weekly.*
Nineteenth Century; Classical Drama.
History of French Literature.
Nineteenth Century Prose.
Composition and Idioms.
Exercises in Pronunciation, Recitation, and Conversation; French Oral and Written Reports and Essays; Private Reading.

or C.

SPANISH. (9 a. m.) *Four hours weekly.*
Manning's *Spanish Grammar;* Exercises in Composition; History of Spanish Literature.
Matzke's *Spanish Readings;* Alarcón, *El Capitán Veneno;* Galdós, *Doña Perfecta;* Tamayo, *Un Drama Nuevo.*

PHILOSOPHY. (11 a. m.) *Five hours weekly.*
Logic, Psychology, and Ethics.

ELECTIVE COURSE. *Two hours weekly.*
[See foot-note, page 160.]

or B.

GERMAN. (11 a. m.) *Four hours weekly.*
Classics: Goethe, *Faust;* Schiller, *Wallensteins Lager, Piccolomini.*
Prose Reading.
History of German Literature.
Composition and Grammar.
Private Reading: Schiller, *Wallensteins Tod.*

or D.

ITALIAN. (9 a. m.) *Four hours weekly.*
Grandgent's *Grammar* and *Composition;* main laws of versification; History of Italian Literature.
Prose readings: De Amicis, Verga, Serao, Fogazzaro.
Selected poetry of Dante, Alfieri, Goldoni, Leopardi.

ENGLISH. (12 m.) *Four hours weekly.*
Anglo-Saxon.
Early Scottish Poets.
Elizabethan Literature.
Literature of the first half of the Nineteenth Century.

*If Chemistry be chosen, it should be taken in the second year, and German in the first year.

Students who have passed French or German as the principal subject in place of Greek for matriculation, must substitute some other four-hour course.

SYNOPSIS OF GROUPS.

Group I.	Group II.	Group III.	Group IV.	Group V.	Group VI.	Group VII.
FIRST YEAR.						
Latin, 9–10. Chemistry, 9–10.* or Biology or Physics } 10–11. Rhetoric, 12–1. Greek, 1–2.	Chemistry, 9–10. German, 11–12. Rhetoric, 12–1. Mathematics.	Chemistry, 9–10. Physics, 10–11. German, 11–12. Rhetoric, 12–1.	Chemistry, 9–10. Physics, 10–11. German, 11–12. Rhetoric, 12–1.	Latin, 9–10. Chemistry, 9–10.* or Biology or Physics } 10–11. Mathematics. Rhetoric, 12–1.	Latin, 9–10. History, 10–11. German, 11–12. Rhetoric, 12–1.	Latin, 9–10. Chemistry, 9–10.* or Biology or Physics } 10–11. Rhetoric, 12–1. English, 1–2.
SECOND YEAR.						
Latin, 10–11. German, 11–12. Greek, 12–1. English Literature.	Mathematics, 9–10. Physics, 10–11. French, 12–1. English Literature.	Chemistry, 9–10. Biology, 10–11. French, 12–1. English Literature.	Geology, 1–2. Biology, 10–11. French, 12–1. English Literature.	Mathematics, 9–10. Latin, 10–11. German, 11–12. English Literature.	Economics, 10–11. History, 11–12. French, 12–1. English Literature.	History and Economics, 10–11. German, 11–12. French, 12–1. Elective Course.
THIRD YEAR.						
History and Economics, 10–11. Philosophy, 11–12. French, 12–1. Comp. Philology. Elective Course.	History and Economics, 10–11. Philosophy, 11–12. Physics, 12–1. Elective Course.	Biology, 9–10. History and Economics, 10–11. Philosophy, 11–12. Elective Course.	History and Economics, 10–11. Philosophy, 11–12. Geology, 12–1. Zoology or Botany (*elective*).†	History and Economics, 10–11. Philosophy, 11–12. French, 12–1. Elective Course.	Chemistry, 9–10. or Physics or Biology } 10–11. Philosophy, 11–12. Political Science, 12–1. Elective Course.	Italian or Spanish } 9–10. or French, 10–11. or German, 11–12. Philosophy, 11–12. English, 12–1. Elective Course.

* See footnotes on pages 155, 159, 161.
† See footnote on page 158.

HOURS OF COLLEGE COURSES.

Hours.	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.
9	Elective Courses. Mathematics (Minor). English Literature. Mathematics (Prelim.).	Latin (Minor). Chemistry (Minor). Chemistry (Major). Biology (Major). Mathematics (Major). Italian (Minor). Spanish (Minor). French (Elements). German (Elements).	Latin (Minor). Chemistry (Minor). Chemistry (Major). Biology (Major). Mathematics (Major). Italian (Minor). Spanish (Minor). French (Elements). German (Elements).	Latin (Minor). Chemistry (Minor). Chemistry (Major). Biology (Major). Mathematics (Major). Italian (Minor). Spanish (Minor).	Latin (Minor). Chemistry (Minor). Chemistry (Major). Biology (Major). Mathematics (Major). Italian (Minor). Spanish (Minor). French (Elements). German (Elements).
10	Physics (Minor). Biology (Minor). Latin (Major). History and Economics. History (Minor). French (Major). Political Science (Minor). Greek (Preliminary).	Elective Courses. Mathematics (Minor). English Literature. Mathematics (Prelim.).	Physics (Minor). Biology (Minor). Latin (Major). History and Economics. History (Minor). French (Major). Political Science (Minor). Latin (Preliminary).	Physics (Minor). Biology (Minor). Latin (Major). History and Economics. History (Minor). French (Major). Political Science (Minor). Latin (Preliminary).	Physics (Minor). Biology (Minor). Latin (Major). History and Economics. History (Minor). French (Major). Political Science (Minor). Latin (Preliminary).
11	German (Major). German (Minor A). German (Minor B). Philosophy. History (Major).	German (Major). German (Minor A). German (Minor B). Philosophy. History (Major).	Mathematics (Minor). English Literature. Philosophy. Mathematics (Prelim.).	German (Major). German (Minor A). German (Minor B). Philosophy. History (Major).	German (Major). German (Minor A). German (Minor B). Philosophy. History (Major).
12	Greek (Major). French (Minor A). French Minor B). Physics (Major). Political Science (Major). English (Major). Rhetoric. Geology (Major).	Greek (Major). French (Minor A). French (Minor B). Physics (Major). Political Science (Major). English (Major). Rhetoric. Geology (Major).	Greek (Major). French (Minor A). French (Minor B). Physics (Major). Political Science (Major). English (Major). Rhetoric. Geology (Major).	Mathematics (Minor). Elective Courses. Mathematics (Prelim.). Geology (Major).	Greek (Major). French (Minor A). French (Minor B). Physics (Major). Political Science (Major). English (Major).
1	Greek (Minor). English (Minor). Geology (Minor).	Greek (Minor). English (Minor). Geology (Minor).	Greek (Minor). English (Minor). Geology (Minor).	Greek (Minor). English (Minor). Greek (Preliminary). Geology (Minor).	Elective Courses. Greek (Preliminary).

REQUISITES FOR THE DEGREE OF BACHELOR OF ARTS.

As an evidence that the collegiate course has been successfully completed, the degree of Bachelor of Arts is conferred at its close. The degree signifies, in the case of every recipient, such instruction in ancient and modern languages, in mathematics, in the physical and natural sciences, in literature, philosophy, and history, as is believed to be essential to a liberal education. The candidate must, in addition to all the requirements for admission and matriculation, absolve—

(*a*) The following prescribed courses: Rhetoric; English Literature; Economics and History; Philosophy; the minor course* in French and the minor in German; exercises in English Composition, as prescribed by the Collegiate Professor of English; Drawing; Physical and Vocal Culture.

(*b*) Five courses, each occupying four hours weekly for one year, of which at least one must be a major course, and at least one must be a laboratory course†; also an elective course, two hours weekly, during the third year.

In all cases, the candidate must pursue the last year of his undergraduate course in this institution, and must have completed his matriculation before entering upon that year, unless, for special reasons, the Board of Advisers shall have permitted a postponement of some portion of the matriculation requirements. Such special reasons must, in all ordinary cases, be submitted to the Board not later than the close of the year preceding the last; and in no case will they be considered later than October of the last year.

Each instructor files in the office, about the time of the winter and spring recesses and at the close of the year, a report of the progress of each member of his classes, deduced from daily observation, or examinations, or both. These reports are called

*A "minor course" is the first year of instruction in any subject; a "major course" is the second year of instruction.

†If the major course selected be a laboratory course, an additional laboratory course will not be required.

the Intermediate Records. Other reports (*e. g.* of private readings, or of the completion of a particular book or subject) may be made by the instructor at any time.

At the close of the year, the University holds an examination of each class on the whole year's work, known as the University Examination, the reports of which are also put on file in the office.

From the Intermediate Records and the Reports of the University Examination, the Board of Collegiate Advisers causes to be made up an average mark, on the authorized scale, for the work of the whole year, which alone determines the standing of any candidate for honors. This constitutes the Final Record.

The reports of all these examinations are carefully recorded and preserved, and the degree of Bachelor of Arts is conferred only when the records show that the prescribed amount of work has been satisfactorily completed.

Regular attendance upon the prescribed exercises is required. Satisfactory certificates must be presented from the teachers of drawing, physical training, and vocal culture. One or more of the essays which the candidate has written, copied by his own hand in a prescribed style, must be left with the Registrar, before the first of May preceding graduation, for presentation to the Board of Collegiate Advisers.

No uniform length of residence is prescribed as necessary to the attainment of the bachelor's degree. Students who fully meet, at entrance, the requirements for matriculation (see pages 168–171) and who maintain a satisfactory standing in the full work of each year, may be graduated in three years. Other students will require four years. But a young man who comes with attainments beyond what are required for matriculation, or who possesses unusual ability, may complete the work in less than three years. No one is kept back by the requirements of the ordinary class system.

ADVISERS.

Before an undergraduate student begins his academic work, the President designates one of his principal instructors to act as his Adviser. The approval of the Adviser is necessary before the student can enter upon any course of study; no instructor will receive into a class any student who does not bring with him (in a book provided for that purpose) assurance that his Adviser approves his pursuing the study at that time, and no student is allowed, without the consent of his Adviser, to discontinue any work. Each Adviser endeavors to establish relations of friendliness and confidence with the students assigned to his care; he not only gives counsel in regard to the selection of studies, but promotes the welfare of his students in every practicable way.

REQUIREMENTS FOR ADMISSION.

Those who wish to pursue undergraduate courses, are expected to appear at the regular times appointed for examination in June and September. Persons at a distance desiring information are requested to write for a blank form of "Application for Admission," which may be filled up and returned to the University. Upon its receipt, such counsel will be given as the case requires.

(*a*) Matriculated Students.

Students who fully meet, at entrance, the requirements for matriculation (as stated on pages 168–171), and who maintain a satisfactory standing in the full work of each year, may be graduated in three years.

Students who fail to meet, at entrance, the full matriculation requirements, or whose work, after admission, is unsatisfactory, will need a longer period of residence.

The matriculation examination may be divided, and a part of the subjects passed in one year and the rest a year later, according to the regulations prescribed below (see page 171).

When a school, approved by the Academic Council, shall certify that a candidate has satisfactorily completed *all the studies requisite for matriculation*, such candidate will be exempted from examination, except in the following subjects: Trigonometry, Analytic Geometry, Cicero or Vergil (as the candidate may prefer), Latin Prose Composition, Homer or Herodotus (as the candidate may prefer), Greek Prose Composition, the minor courses in French and German, English, and Science. The examination in these subjects may be divided between June and September of the same year, but, except in the case of English, not between successive years.

(*b*) Candidates for Matriculation.

The matriculation examination may be passed, at entrance, by those who have completed the courses now offered in several preparatory schools of Baltimore. Persons taught elsewhere are often unable to obtain instruction in all the subjects requisite for matriculation. To meet the needs of such students, terms of admission are offered (as described on page 172), corresponding to the terms of admission to other colleges of established reputation. Students who satisfy these requirements, may be admitted to the course of study stated on pages 150, 151. In the case of such persons, a residence of four years will be necessary to the attainment of the degree of Bachelor of Arts.

(*c*) Special Students.

The University discourages from entering as special students those who are not qualified, by age, character, attainments, and habits of study, to attend its classes and lectures with profit to themselves and credit to the institution. The authorities are, however, ready to receive, as special students, properly qualified persons who have some good reason for not pursuing the full course. A special examination is arranged for such persons (see page 172). Many excellent students have been thus enrolled, among whom not a few have subsequently changed their plans, passed the matriculation examination, and at length received the degree of Bachelor of Arts. The privilege once accorded will be forfeited at any time, if the student is found unworthy of it.

Requirements for Matriculation.

1. *Mathematics.*—Algebra; Plane and Solid Geometry; Plane Trigonometry; Analytic Geometry. A competent knowledge of Arithmetic (including the metric system) is assumed.

The requirements in Algebra include the following subjects:

(*A*). The fundamental rules, use of parentheses, factoring, greatest common divisor, least common multiple, equations of the first degree in one or more unknown quantities, and problems leading to such equations, fractions, inequalities, involution and evolution, theory of exponents, radicals, imaginaries, quadratic equations and problems leading to quadratics.

(*B*). Equations solved like quadratics, simultaneous quadratic equations, theory of quadratic equations, ratio and proportion, the progressions, the binomial theorem, logarithms, permutations and combinations.

The subjects required in Plane and Solid Geometry and in Trigonometry are those treated in the ordinary text-books.

The subjects required in Analytic Geometry are the straight line in rectangular coördinates, transformation of coördinates, loci, and plotting of curves.

Substitutions: Students selecting groups which do not include Minor Mathematics or Major Physics, may, in case they offer Greek for matriculation, substitute the elements of either French or German (4*b* or 5*b*, page 169) for Analytic Geometry; or the elements of both French and German for Plane Trigonometry and Analytic Geometry.

Students selecting groups which do not include Minor Mathematics or Major Physics, may, in case they offer, in place of Greek, French and German (4*a* and 4*b*, or 5*a* and 5*b*, page 169) for matriculation, substitute for Plane Trigonometry and Analytic Geometry (*a*) the Minor Course in Latin, or (*b*) the Minor Course in French or in German.

2. *Latin.*—Cæsar, *Gallic War*, five books; Vergil, *Eclogues* and *Aeneid*, books i–vi; Ovid (Allen and Greenough's Ovid, pp. 1–74, 176–195, or Kelsey's); Cicero, the four orations against Catiline, *de imperio Pompeii*, *pro Archia*, and *in Verrem*, *actio I;* translation of easy English prose into Latin.

Substitution: Sallust's *Catiline* may be substituted for the fifth book of Cæsar, and Cicero's *de Senectute* for the *de imperio Pompeii.*

The examination will test the power of exact and idiomatic translation, the knowledge of forms, of syntax, and of prosody. In certain cases a candidate may be allowed to take an oral, instead of a written, examination. If, for instance, he has not been prepared on the books above prescribed, but has read about the same amount in other books, he may be examined on these.

3. *Greek.*—Xenophon, *Anabasis*, books i–iv; Homer, *Iliad*, books i–iv; Herodotus, book vii; translation of easy English prose into Greek.

Candidates will be expected to show an accurate knowledge of forms, and an acquaintance with the common rules of syntax and accent, and with the prosody of the Homeric poems.

In case any candidate has made his preparation by the study of books other than those named above, or for any reason believes that an oral examination would be for his advantage, he may be examined upon easy passages previously unseen; if he acquits himself well, he will be required to put on paper only the passage given to be translated nto Greek prose.

4, 5. *German and French.*—Candidates not offering Greek must offer one of the following combinations. In one of these languages the elements are required; in the other, an amount of knowledge equal to that represented by the minor or first year's collegiate course:

4.

(*a*) *German.*

Edgren and Fossler, *A brief German Grammar.*
Vos, *Materials for German Conversation*, pp. 1–35 (I–XLVIII).
Schiller, *Wilhelm Tell*, (Clarendon Press, large edition).
Goethe, *Egmont* (ed. Buchheim).
Lessing, *Minna von Barnhelm* (Clarendon Press).
Heine, *Harzreise* (Clarendon Press).
Freytag, *Der Staat Friedrichs des Grossen* (ed. W. Wagner, Pitt Press).
Prose Composition (Whitney's *Grammar*, Exercises, 2d Series).

(*b*) *French.*

Whitney's *Grammar, Part I.*
Super's *French Reader, Parts II, III, IV;* J. Verne, *Michel Strogoff* (ed. Lewis).

5.

(*a*) *French.*

Whitney's *Grammar, Parts I and II,* substituting for the exercises of *Part II,* "*Materials for French Composition, Part I,* based on Halévy's *L'Abbé Constantin*" (ed. Grandgent; Heath & Co.).
Super's *French Reader, Parts II, III, IV;* J. Verne, *Michel Strogoff* (ed. Lewis); Mérimée, *Colomba;* Daudet, *Contes* (ed. Cameron).
Molière, *L'Avare;* Hugo, *Hernani* (ed. Matzke); Augier, *Le Gendre de M. Poirier;* Sandeau, *Mlle de la Seiglière* (ed. Warren).

(*b*) *German.*

Edgren and Fossler, *A brief German Grammar.*
Vos, *Materials for German Conversation*, pp. 1–35 (I–XLVIII).
von Wildenbruch, *Das edle Blut* (ed. Schmidt).

The amount of German and French accepted as a substitute for Greek at matriculation may not count also as a part of the work required for graduation.

Reading at Sight. The language papers, both ancient and modern, will contain one passage, or more, of moderate difficulty, not included in the prescribed lists. A good handling of passages previously unseen will go far toward compensating for deficiencies in the formal requirements. This does not apply, however, to the examination in the *elements* of French and German.

6. *English.*—The examination will consist of two parts:

I. *Reading.* The candidate will be required to write a paragraph or two on each of several topics chosen by him from a considerable number—

perhaps ten or fifteen—set before him in the examination paper. This part of the examination is designed, primarily, to test the candidate's power of clear and accurate expression, and will call for only a general knowledge of the substance of the books. As additional evidence of preparation, the candidate may present an exercise book, properly certified by his instructor, containing compositions or other written work.

The books set for this part of the examination will be:—

In 1900: Dryden's *Palamon and Arcite;* Pope's *Iliad,* Books I, VI, XXII, XXIV; *The Sir Roger de Coverley Papers* in *The Spectator;* Goldsmith's *The Vicar of Wakefield;* Scott's *Ivanhoe;* De Quincey's *The Flight of a Tartar Tribe;* Cooper's *The Last of the Mohicans;* Tennyson's *The Princess;* Lowell's *The Vision of Sir Launfal.*

In 1901 and in 1902: Shakespeare's *The Merchant of Venice;* Pope's *Iliad,* Books I, VI, XXII, and XXIV; *The Sir Roger de Coverley Papers* in *The Spectator;* Goldsmith's *The Vicar of Wakefield;* Coleridge's *Ancient Mariner;* Scott's *Ivanhoe;* Cooper's *The Last of the Mohicans;* Tennyson's *The Princess;* Lowell's *The Vision of Sir Launfal;* George Eliot's *Silas Marner.*

In 1903: Shakespeare's *The Merchant of Venice* and *Julius Cæsar; The Sir Roger de Coverley Papers* in *The Spectator;* Goldsmith's *The Vicar of Wakefield;* Coleridge's *Ancient Mariner;* Scott's *Ivanhoe;* Carlyle's *Essay on Burns;* Tennyson's *The Princess;* Lowell's *The Vision of Sir Launfal;* George Eliot's *Silas Marner.*

II. *Study and Practice.* This part of the examination presupposes the careful study of each of the works named below. The examination will be upon subject-matter, form, and structure, and will also test the candidate's ability to express his knowledge with clearness and accuracy.

The books set for this part of the examination will be:—

In 1900: Shakespeare's *Macbeth;* Milton's *Paradise Lost,* Books I and II; Burke's *Speech on Conciliation with America;* Macaulay's *Essays on Milton and Addison.*

In 1901, in 1902, and in 1903: Shakespeare's *Macbeth;* Milton's *L'Allegro, Il Penseroso, Comus,* and *Lycidas;* Burke's *Speech on Conciliation with America;* Macaulay's *Essays on Milton and Addison.*

The reading and study of the works named above is recommended to all candidates; equivalents will, however, be accepted, provided that the amount of reading be about equally divided between prose and verse.

In connection with the reading and study of the required books, parallel or subsidiary reading should be encouraged, and a considerable amount of English poetry should be memorized. The essentials of English Grammar should not be neglected in preparatory study.

Note.—No candidate will be accepted in English whose work is notably defective in point of spelling, punctuation, idiom, or division into paragraphs.

Although candidates will be permitted to take the entire examination at entrance, it is strongly recommended that Part I be taken as a preliminary examination, and Part II as a final examination. Candidates will thus have an opportunity to make up deficiencies which may be discovered at the preliminary examination, and to enter the University without a condition in English.

7. *History.*—The outlines of the History of England and the United States, or of the History of Greece and Rome, and the outlines of Geography.

8. *Science.*—The elements of Chemistry, Botany, or Physical Geography.

The examination is intended to determine whether the candidate has a knowledge of the elementary facts of one of these sciences, based on practical study. Those who take the examination in Chemistry will be examined in Remsen's "Elements of Chemistry,"

and will be required to have performed the experiments described in Remsen's "Laboratory Manual," and to present their laboratory note-books for examination. The requirements in Botany include a knowledge of the structure of plants, such as may be obtained from a study of Spaulding's "Introduction to Botany," excluding the microscopic work, and the ability to use Gray's Manual in determining the species of flowering plants. The examination will be mainly practical. In order to absolve the requirements in Physical Geography, the student must pass an examination on Davis's "Physical Geography," or Tarr's "Elementary Physical Geography."

Division of the Matriculation Examination.

A student may pass a part of the matriculation examination one year before his admission to the University, and receive credit for the same under the following conditions:

In his application he must distinctly declare his intention to divide the examination. The subjects thus passed will not count towards matriculation, unless the candidate completes his matriculation the following year. The first part of the divided examination will be confined to the following subjects, of which the candidate will be expected to pass in English (part I), Algebra, one Latin author, and three of the remaining subjects:*

English (Part I).
Algebra (A). (See page 168).
Plane Geometry.
Cæsar, *Gallic War*, five books.
Vergil, *Aeneid*, books i–vi.
Xenophon, or French, or German. (See statement below).
History of the United States or of Greece.
History of England or of Rome.
Science.

If French or German is offered in place of Xenophon, the candidate will be examined as follows:

In *German:* Edgren and Fossler, *A brief German Grammar;* Vos, *Materials for German Conversation*, pp. 1–35 (I-XLVIII); Schiller's *Wilhelm Tell;* Prose Composition, sentences of moderate difficulty to be translated into German at sight.

Or in *French:* Whitney's *Grammar, Part I*, with the exercises; Super's *French Reader, Parts II, III, IV;* Mérimée, Sandeau, J. Verne, Augier, Daudet—(as on page 169); Prose Composition, sentences of moderate difficulty to be translated into French at sight.

The whole of the above amounts must be offered.

* Schools approved by the Academic Council, according to the plan described on page 167, may recommend for examination in English (part I), and in Science, candidates who do not wish to attempt the other subjects required in the first part of the divided examination.

Requirements for Admission as a Candidate for Matriculation.

1. *Mathematics.*—Algebra (A and B); Plane Geometry (as for matriculation). A competent knowledge of Arithmetic (including the metric system) is assumed.
2. *Latin.*—Cæsar, *Gallic War*, four books; Vergil, *Aeneid*, books i–vi; Cicero, four orations against Catiline, *de imperio Pompeii, pro Archia;* Ovid, 1000 lines (Allen and Greenough's Ovid, pp. 1–33, 176–180, or Kelsey's); translation of easy English prose into Latin.
3. *Greek.*—Xenophon, *Anabasis*, books i–iv; Homer, *Iliad*, books i–iii; translation of easy English sentences into Greek.
4. *German* and *French* (in substitution for *Greek*):
   German.—Edgren and Fossler, *A brief German Grammar;* Vos, *Materials for German Conversation*, pp. 1–35 (I–XLVIII); von Wildenbruch, *Das edle Blut* (ed. Schmidt).
   French.—Whitney's *Grammar, Part I;* Super's *French Reader, Parts II, III, IV;* J. Verne, *Michel Strogoff* (ed. Lewis).
5. *English,*—(as for matriculation).
6. *History,*—(as for matriculation).
7. *Science,*—(as for matriculation).

Requirements for Admission as a Special Student.

Before an undergraduate is admitted as a special student, he will be required, unless expressly excused for definite reasons, to pass examinations in the following subjects:

1. *Mathematics.*—Algebra; Plane and Solid Geometry. (As for matriculation). A competent knowledge of Arithmetic (including the metric system) is assumed.

2. *Latin.*—Cæsar, *Gallic War*, four books; Cicero, six orations; Vergil, *Aeneid*, books i–vi, and *Eclogues*.

Substitution: Students who wish to pursue studies other than linguistic or historical, may substitute for the requirement in Latin the full amount of Mathematics requisite for matriculation (page 168).

3. *Greek.*—Xenophon, *Anabasis*, books i–iv; Homer, *Iliad*, books i, ii.

Substitution: Students who do not offer Greek, will be examined in French or German as specified under "Division of the Matriculation Examination" (page 171), and in the History of Greece and Rome.

4. *English,*—(as for matriculation).
5. *United States History,*—(as for matriculation).
6. *Science,*—(as for matriculation).

THE JOHNS HOPKINS MEDICAL SCHOOL.

Detailed statements as to the courses of instruction and other information are given in the Annual Announcement of the Johns Hopkins Medical School, which will be sent upon application to the Registrar of the Medical School.

TERMS OF ADMISSION.

The medical department of this university is planned for the professional education of those students who have been especially fitted to receive its instruction by a course of preliminary training in the liberal arts, and especially in those branches of science, like physics, chemistry, and biology, which underlie the medical sciences. Men and women are admitted upon the same terms.

As candidates for the degree of Doctor of Medicine the school receives:

1. Those who have satisfactorily completed the Chemical-Biological course which leads to the A. B. degree in this university.

2. Graduates of approved colleges or scientific schools who can furnish evidence: (*a*) That they have acquaintance with Latin and a reading knowledge of French and German; (*b*) That they have such knowledge of physics, chemistry, and biology as is imparted by the regular minor courses given in these subjects in this university.

The phrase "a minor course," as here employed, means a course that requires a year for its completion. In physics, four class-room exercises and three hours a week in the laboratory are required; in chemistry and biology four class-room exercises and five hours a week in the laboratory, in each subject.

Many inquiries have been received regarding the character and amount of the requisite training indicated by the term "Minor Course" in these sciences. In explanation, it may be stated, with respect to Biology, that the candidates should have followed for at least a year a laboratory course in the structure, life history, and vital activities of selected types of animal and vegetable life. In the Chemical-Biological course for undergraduates in

this university, the laboratory work in biology (Minor Course) at present includes the study of such types as amœba, hæmatococcus, yeast, penicillium, bacteria, mushroom, hydra, vorticella, a fern, a flowering plant, the earthworm, lobster, anodon; the gross and minute anatomy of the frog, the development of its eggs, the structure, formation, and metamorphoses of the tadpole; dissection of a mammal; the field and laboratory study of some few flowering plants. The laboratory work is the more important part, the lectures and other exercises subsidiary. It is, of course, not to be understood that this curriculum of biological work must be rigidly followed. Equivalent work will be accepted.

The candidate should have followed a course in general Chemistry for at least a year. This course should include laboratory work, about five hours a week through the year, and lectures and class-room work covering the outlines of inorganic chemistry and the elements of organic chemistry. A good knowledge of the subject as presented in Remsen's "Introduction to the Study of Chemistry" may be regarded as the minimum requirement. A fuller knowledge of Chemistry is, of course, desirable.

In Physics, the candidate should have followed a collegiate course for at least one year. This should include four hours a week of class-room work and at least three hours a week of quantitative work in the laboratory. Special attention should be given to theoretical mechanics and to the mechanical and electrical experiments.

3. Those who give evidence by examination that they possess the general education implied by a degree in arts or in science from an approved college or scientific school, and the knowledge of French, German, Latin, physics, chemistry, and biology above indicated.

Applicants for admission will receive blanks to be filled out relating to their previous courses of study.

They are required to furnish certificates from officers of the colleges or scientific schools where they have studied, as to the courses pursued in physics, chemistry, and biology. If such certificates are satisfactory, no examination in these subjects will be required from those who possess a degree in arts or in science from an approved college or scientific school.

Candidates who have not received a degree in arts or in science from an approved college or scientific school, will be required (1) to pass, at the beginning of the session in October, the matriculation examination for admission to the collegiate department of the Johns Hopkins University; (2) then to pass examinations equiva-

lent to those taken by students completing the Chemical-Biological course which leads to the A. B. degree in this University; and (3) to furnish satisfactory certificates that they have had the requisite laboratory training as specified above. It is expected that only in very rare instances will applicants who do not possess a degree in arts or in science, be able to meet these requirements for admission.

Hearers and special workers, not candidates for a degree, will be received at the discretion of the Faculty.

Admission to Advanced Standing.

Applicants for admission to advanced standing must furnish evidence (1) that the foregoing terms of admission as regards preliminary training have been fulfilled, (2) that courses equivalent in kind and amount to those given here, preceding that year of the course for admission to which application is made, have been satisfactorily completed, and (3) must pass examinations, at the beginning of the session in October, in all the subjects that have been already pursued by the class to which admission is sought. Certificates of standing elsewhere cannot be accepted in place of these examinations.

GENERAL PLAN OF INSTRUCTION.

The course of instruction is planned for those who have received a liberal education and the training in physics, chemistry, and general biology which has been specified, The required period of study for the degree of Doctor of Medicine is four years. The academic year begins on the first of October and ends about the middle of June. There are short recesses at Christmas and Easter.

The first two years of the course are devoted mainly to the fundamental medical sciences, a large part of the time being spent in practical work in the laboratories. In the latter two years, medicine, surgery, obstetrics, and the various specialties are studied in the clinical laboratories, the dispensary, and the wards of the hospital.

The principal studies of the first year are anatomy, including normal histology, microscopic anatomy, embryology, physiology,

and physiological chemistry. The study of anatomy and physiology is continued in the second year. Throughout the second year general pathology, pathological anatomy, and pharmacology are studied. A practical course in bacteriology, with the chief emphasis upon its hygienic and pathological bearings, is given during three months of this year.

Upon the basis of thorough training in the medical sciences, pursued during the first two years of the course, the student should now be well fitted to undertake the study of practical medicine and surgery.

During the third year the general principles of medicine, surgery, and obstetrics are studied, and clinical instruction in medicine and surgery is given. The study of certain special branches of medicine is also begun. Leading features of the work of this year are the courses in the clinical laboratories and practical work in the dispensary.

During the fourth year the practical study of medicine, surgery, and obstetrics is continued, and instruction is given in gynecology and in the various special branches of medicine and surgery, viz: dermatology, diseases of the nervous system, genito-urinary diseases, laryngology, ophthalmology and otology, paediatrics, and psychiatry. In this year the students serve as clinical clerks and surgical dressers in the wards of the hospital and are in daily attendance at special classes in the dispensary. They also attend cases of labor in the obstetrical wards of the hospital, and, under proper supervision, in the homes of patients. For the ward and dispensary work the class is divided into small groups.

Instruction in hygiene, medical zoölogy, forensic medicine, and medical history is provided during the course.

Work in the dissecting room, in the laboratory, and at the bedside, demonstrations, clinics, lectures, and recitations are the main features of the methods of instruction. Simply didactic lectures occupy a subsidiary position, as compared with instruction by recitations and demonstrations and especially by practical work in the various laboratories, in the hospital wards, and in the dispensary. In consequence of the high standard of admission, the classes are not likely to be excessively large, and abundant opportunity is therefore afforded for practical work for each student and for personal contact between teacher and student.

SPECIAL COURSES FOR GRADUATES IN MEDICINE.

Special courses of instruction for graduates in medicine are given during the months of May and June. These courses are in Pathology, Bacteriology, Clinical Microscopy, Medicine (including Diseases of Children and of the Nervous System), Surgery and Gynecology. The instruction is intended to meet the requirements of practitioners of medicine, and is almost wholly of a practical character. It includes laboratory courses, demonstrations, bed-side teaching, and clinics in the wards, dispensary, amphitheatre, and operating rooms of the hospital. A preliminary course in normal histology for physicians is given during April.

FELLOWSHIPS.

I. Fellowships by Courtesy.

The Academic Council may, at their discretion, by special vote, enroll as Fellows by Courtesy—

(*a*) Gentlemen who are or who have been teachers in colleges and other like institutions, and who wish, for brief periods, to avail themselves of the opportunities here afforded for study and for the use of books and laboratories.

(*b*) Holders of fellowships in other colleges, during their residence here.

(*c*) Those who have been fellows of this University and desire to continue in residence.

Fellows by Courtesy will not be exempt from the payment of fees, except by a special vote.

II. Fellowships.

Twenty fellowships, each yielding five hundred dollars but not exempting the holder from the charges for tuition, are annually awarded in this University.

The system of fellowships was instituted for the purpose of affording to young men of talent from any place an opportunity of continuing their studies in the Johns Hopkins University, while looking forward to positions as professors, teachers, and investigators, or to other literary and scientific vocations. The fellowships are given to young men who wish to follow systematically through the year the instructions of the teachers here engaged, and those who are appointed are expected to proceed to the degree of Doctor of Philosophy. The appointments are not made as rewards for good work already done, but as aids and incentives to good work in the future; in other words, the fellowships are not so much honors and prizes bestowed for past achievements, as helps to further progress and stepping-stones to honorable intellectual careers. They are not offered to those who are definitely looking forward to the practice of

any one of the three learned professions (though such persons are not formally excluded from the competition), but are bestowed almost exclusively on young men desirous of becoming teachers of science and literature, or proposing to devote their lives to special branches of learning which lie outside of the ordinary studies of the lawyer, the physician, and the minister. Appointments are rarely if ever made of graduates of more than five years' standing.

Each candidate is expected to submit his college diploma or other certificate of proficiency from the institution where he has been taught, with recommendations from those who are qualified to speak of his character and attainments. But this is only introductory. He must also submit, orally or in writing, such evidence of his past success in study and of his plans for the future, together with such examples of his literary or scientific work, as will enable the professors to judge of his fitness for the post. The examination is, indeed, in a certain sense competitive; but not with uniform tests, nor by formal questions submitted to the candidates. First, the head of a given department considers, with such counsel as he may command, the applicant's record. The professors then collectively deliberate on the nominations made by individual members of their body. The list upon which they agree, with the reasons for it, is finally submitted by the President of the University to the Executive Committee, and by them to the Trustees for final registration and appointment. By all these precautions the highest results which were anticipated have been secured. A company of most promising students has been brought together, and their ability as teachers and scholars has been recognized by the calls they have received to permanent and desirable posts in various parts of the country.

The number of applications for fellowships has hitherto been very large, and it may have happened that some candidates have failed of appointment who were really superior to those selected. But if so, this has resulted from the fact that a considerable number of applicants have each year forwarded to the University merely testimonials from their instructors, without any such examples of their own work as have been mentioned above; and, in consequence, the professors, from want of adequate knowledge, have possibly passed over candidates who may have been in the highest degree meritorious.

The applicants are notified of the result by means of a printed list of the successful candidates.

The absence of candidates from Baltimore has been no bar to their appointment, in cases where adequate evidence of their claims has been presented; but it is obvious, from the nature of the case, that graduate students residing in Baltimore must have better opportunities than others of making known their powers to the appointing board, and during the last few years the number of persons appointed, who had not previously been resident here, is very small.

Regulations.

1. The application must be made prior to May 1, in writing, addressed to the President of the University, and he will refer the papers to the Academic Council, by whom the nominations will be made to the Board of Trustees, at their meeting in June. There is no prescribed form of application.

2. The candidate must give evidence of a liberal education, such as the diploma of a college of good repute; of decided proclivity towards a special line of study, such as an example of some scientific or literary work already performed; and of upright character, such as a testimonial from some instructor.

3. The value of each fellowship is five hundred dollars. The holder is not exempt from the charges for tuition. In case of resignation, promotion, or removal from the fellowship, payments will be made for the time during which the office shall have been actually held.

4. Every holder of a fellowship will be expected to perform such duties as may be allotted to him in connection with his course of study, to act when called upon as an examiner or as moderator in the examination-room, to give all his influence for the promotion of scholarship and good order, and in general to co-operate in upholding the efficiency of the University, as circumstances may suggest. He must reside in Baltimore during the academic year.

5. He will be expected to devote his time to the prosecution of special studies (not professional), under the direction of the head of the department to which he belongs, and before the close

of the year to give evidence of progress by the preparation of a thesis, the completion of a research, the delivery of a lecture, or by some other method.

6. He may give instruction, with the approval of the President, by lectures or otherwise, to persons connected with the University, but he may not engage in teaching elsewhere.

7. He may be reappointed at the end of the year, but only for exceptional reasons.

8. Usually not more than two fellows will be appointed in any department of study.

9. As these fellowships are awarded as honors, those who are disposed, for the benefit of others, or for any other reason, to waive the pecuniary emolument, may do so, and still have their names retained on the honor list.

III. Adam T. Bruce Fellowship.

This fellowship was founded in 1887 by the mother of Adam T. Bruce, Ph. D., late Fellow and Instructor in this University, as a memorial of her son, and is awarded annually. It is bestowed by the appointing board upon the candidate whom they consider most likely to promote biological science, and especially animal morphology, by original research. The stipend is the income of the Adam T. Bruce Fellowship endowment of ten thousand dollars. Preference is given to those who have already held fellowships in the Johns Hopkins University.

The electors consist of the President of the University, the chief instructor in animal morphology, the chief instructor in animal physiology, and a non-resident member annually chosen by the resident electors.

Appointments already Made.

1888. Henry Van Peters Wilson, Ph. D.
1889. Shozaburo Watase, Ph. D.
1890. Thomas Hunt Morgan, Ph. D.
1891. Robert Payne Bigelow, Ph. D.
1892. Robert Payne Bigelow, Ph. D.
1893. Maynard Mayo Metcalf, Ph. D.
1894. Ross Granville Harrison, Ph. D.
1894. Seitaro Goto, M. S.

1895. Henry McElderry Knower, Ph. D.
1895. George Lefevre, Ph. D.
1896. George Lefevre, Ph. D.
1897. Franklin Story Conant, Ph. D.
1897. Duncan Starr Johnson, Ph. D.
1898. Gilman A. Drew, Ph. D.
1899. Caswell Grave, Ph. D.

REGULATIONS.

Candidates for the Bruce Fellowship must make application, in writing, to the President of the Johns Hopkins University before the first of May of the year of their candidature. They must forward to the President, at the same time, such evidence of their qualifications for appointment as they desire to be considered by the electors.

The electors may require any candidate to appear before them in person.

The Bruce Fellow shall devote his time to study and research in Biology at a place approved of by the President of the University, and he shall, during the month of February in the year of his tenure of the fellowship, send to the President a written statement of the scientific work accomplished by him since his appointment.

The tenure of the fellowship shall commence on the first of September in the year of appointment.

Two hundred and fifty dollars shall be paid to the Fellow on October 1, and the remainder at convenient intervals during his tenure of the fellowship.

The holder of the Bruce Fellowship shall not be more than thirty years of age at the date of his election.

The Bruce fellow may be re-elected, but not oftener than twice.

The holder of the fellowship shall be exempt from charges for tuition.

The electors shall have the power to declare the fellowship vacant if its holder prove, in their opinion, unworthy; and no further stipend shall be paid to such person.

IV. WILLIAM S. RAYNER FELLOWSHIP.

The Rayner Fellowship was founded in 1899 by Mr. Albert W. Rayner and Mrs. Bertha Rayner Frank, of Baltimore, as a memorial of their father, the late Mr. William S. Rayner. It is bestowed annually by the Academic Council upon an advanced student in the department of the Semitic Languages. The stipend is the income of the endowment of ten thousand dollars.

SCHOLARSHIPS.

[Regulations approved by the Trustees April 3, 1899, on the recommendation of the Academic Council, the Board of University Studies, and the Board of Collegiate Advisers.]

I. University Scholarships.

For the encouragement of scholarship among those who have taken the baccalaureate degree and wish to continue their studies here, a certain number of university scholarships are annually bestowed, as stated below:

1. A number, not exceeding five, are awarded at the opening of the academic year, by the Board of University Studies, to young men who completed their undergraduate course in this University at the close of the preceding session and received honors at Commencement.

2. Ten are open about the first of January to graduates of this or of other institutions, who have been studying here during the previous part of the session. Those who wish to be candidates must address their applications to the President of the University, who will appoint a committee of five to consider the applications, and with the aid of such evidence as may be obtained, to make nominations to the Board of University Studies.

3. These scholarships entitle the holders to free tuition, and are tenable for one year. They do not carry exemption from laboratory fees.

4. They are awarded as honors, and those who are disposed, for the benefit of others or for any other reason, to waive the pecuniary emolument, or who are desirous of studying elsewhere, may do so and still have their names retained on the honor list. Those who receive the emolument will be expected to pursue their studies exclusively in this University.

5. The Board will reserve appointments, if worthy candidates do not offer.

II. Hopkins Scholarships.

In the will of the founder of the University, his Trustees are requested to "establish, from time to time, such number of free scholarships in said University as may be judicious, and to distribute the said scholarships among such candidates from the States of Maryland, Virginia, and North Carolina, as may be most deserving of choice, because of their character and intellectual promise, and to educate the young men so chosen free of charge."

Forty-five such scholarships, entitling the holders to free tuition, will be bestowed for the next academic year,—upon fifteen students from each of the three States named.

Students can be recognized as candidates only when actual residents of the State from which they desire to be appointed, during at least the year next preceding their enrolment in the University. If the appointing board is not sure as to the legal residence of any candidate, the point in question shall be determined by the Executive Committee of the Board of Trustees.

These scholarships are all bestowed for merit, and are tenable for the year subsequent to the appointment, the holders being re-eligible.

Successful candidates who are disposed, for the benefit of others or for any other reason, to waive the pecuniary emolument, may do so, and still have their names retained on the honor list. The scholarships may be forfeited because of frequent or prolonged absence, defective scholarship, or unworthy conduct.

Scholarships made vacant by resignation, by forfeiture, or by the non-appearance of worthy candidates at the regular times of selection, may be bestowed by the appointing board, at their discretion, upon other candidates who are found worthy, provided that the principles of this foundation are not departed from.

Holders of scholarships are not exempt from laboratory fees.

Scholars from Maryland.

These scholars are appointed by the Board of Collegiate Advisers, in accordance with the following regulations. No one will receive the honor whose standing as a whole is lower than "*good.*"

1. Five scholarships are open, at the beginning of the session, to those who have just completed their matriculation examination,

and who stand best in a subsequent special examination in mathematics, Latin, and Greek (or French and German).

2. Five are awarded in June to those matriculated students whose records in the studies of the first year are most creditable. By "studies of the first year" is meant either the studies laid down for the first year in one of the regular groups, or such other studies, covering fifteen hours of class-room work weekly, as may be approved of by the Adviser.

3. Five are awarded for excellence in the studies of the second year, upon the same terms as in the case of the first year; provided that the candidate shall have absolved the studies of the first year as above defined.

Scholars from North Carolina and Virginia.

Fifteen Hopkins Scholarships are awarded by the Academic Council to students from Virginia, and fifteen to students from North Carolina, who have already received a creditable baccalaureate degree or its equivalent. In case the entire number of scholarships are not required for graduate students, those that remain may be awarded to undergraduates, in the order of their merit. Applications, in writing, should be filed at the President's office prior to June 1.

III. Washington Scholarships.

The Trustees offer to residents of the District of Columbia two scholarships, yielding free tuition. These, like the Hopkins Scholarships, are awarded to undergraduate students for merit, do not carry exemption from laboratory fees, and are tenable for one year, the holders being eligible for re-appointment.

IV. Woodyear Scholarships.

These scholarships were founded in 1893 by Mrs. William E. Woodyear, of Baltimore, as a memorial of her husband. They are five in number—of the value of one hundred dollars each,—and are awarded annually for exceptional merit among those who need pecuniary assistance. They are offered primarily to undergraduates.

Charges for Tuition, Laboratory Expenses, etc.

A.

For all Courses except the Medical.

I. *Tuition Fees.*

The charge for tuition is one hundred and fifty dollars per annum, payable at the Treasurer's office in semi-annual instalments, October 1 and February 1. There is no extra charge for instruction in any department of study, for lectures, or for the use of the library and reading-room. A gymnasium fee of five dollars per annum is charged to every undergraduate during his residence in the University, and the money thus acquired is devoted to defraying the expenses of the University Athletic Association. Graduate students who use the gymnasium, are also required to pay this fee. Fees are charged, as below stated, for material consumed in the laboratories, for registration, and for diplomas.

No deduction is made at the Treasurer's office because of absence for a period of less than half a year, or because a student gives only a part of his time to study, or because he belongs to but one class. Prompt payment of fees is required.

II. *Registration Fee and Caution Money.*

Every student (including Fellows, Fellows by Courtesy, workers in the laboratories, and attendants upon lectures) pays a registration fee of five dollars and deposits ten dollars as caution money at the time of his enrolment. The caution money is repaid to the student when he leaves the university, if there are no charges against him.

III. *Fees for Attendants on Single Courses.*

Students engaged in other pursuits—clergymen, lawyers, teachers, and other such persons—*who are not candidates for a degree*, are allowed to follow certain courses, not exceeding five lectures weekly, on the payment of fifty dollars. They are not

regarded as members of the University, but are enrolled as "attendants upon lectures," and are entitled only to such privileges as they have paid for. Persons who desire to be so enrolled, are required to make a special written application to the Registrar.

IV. *Graduation Fees.*

The graduation fees are as follows, payable before the delivery of diplomas:

Doctor of Philosophy, ...	$10.00
Bachelor of Arts, ...	5.00

V. *Laboratory Charges.*

In Chemistry: For undergraduates and for graduates who take Chemistry as a subordinate subject, twenty-four dollars a year; for graduates and special students following Chemistry as their principal subject, thirty-six dollars a year. For a half-year, the fee is one-half of these amounts.

In Physics: For students who work one afternoon a week, twelve dollars a year; for those who work two afternoons a week, twenty-four dollars a year; for those who take Physics as their principal subject, thirty-six dollars a year. For a half-year, the fee is one-half of these amounts.

In Biology: For students who work one afternoon a week, twelve dollars a year; for undergraduates and for graduates who take Zoölogy or Physiology as a subordinate subject, twenty-four dollars a year; for graduates and special students following a biological science as their principal subject, thirty-six dollars a year. For a half year, the fee is one-half of these amounts.

In Geology: For graduates, ten dollars a year.

In all the laboratories, a charge is made for breakage and for apparatus not returned in good condition.

Exception to these charges can be made only at the written request of the Director of a laboratory, approved by the President of the University.

Fellows by Courtesy and others who have the privileges of guests in the various laboratories, are expected to pay the usual laboratory charges.

Doctors of Philosophy of this University who desire to remain for a time in the University after having received their diplomas, may do so without charge for tuition, but they are required to pay the usual laboratory charges.

B.

I. Candidates for the Degree of M. D.

The charge for tuition is two hundred dollars per annum, payable at the Treasurer's office or at the office of the Dean of the Medical School, in semi-annual instalments, October 1 and February 1. There are no extra charges for matriculation, for graduation, for instruction in any department, or for laboratory courses, except in special cases for materials consumed. To a student who does not possess a microscope, there is an annual charge of five dollars for the use of one, with an additional charge of two dollars for the use of an oil-immersion lens. One dollar is charged for the rental of a dissecting microscope for one year. The student is responsible for damage to the microscope thus rented.

A deposit of ten dollars as caution money is required from each student at the time of his enrolment. The caution money is repaid the student when he leaves, if there are no charges against him. Special charges are made for breakage and for damage to apparatus.

II. Graduates attending Special Courses in Medicine.

Graduates of medical colleges may be admitted to single courses on the payment of the fees below named:

Medicine, ...	$50
Surgery, ...	50
Gynecology, ...	50
Clinical Microscopy, ...	50
Pathological Histology (including post-mortem examinations and pathological demonstrations),	50

Bacteriology, -	$50
Advanced and Special Work, ...	25
Preliminary Course in Normal Histology, . .	25

Any two of these courses may be taken on the payment of a fee of $75, and any three on the payment of a fee of $100.

In the Pathological, Bacteriological, and Clinical Laboratories special charges are made for breakage and for damage to apparatus. A deposit of ten dollars as caution money is required, which is returned when the student leaves, if there are no charges against him.

Before entering upon any course of instruction in the Medical School, the student must obtain from the Dean of the Medical School, or his representative, a card certifying that he is qualified to follow the desired course. This card will be issued upon the payment of the requisite fee, and it must be presented to the instructors in the various courses at the beginning of the class work.

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A. B., Johns Hopkins University, 1889, Fellow, 1893–94, Ph. D., 1894, and Bruce Fellow, 1894; M. D., University of Bonn, 1899; Lecturer, Bryn Mawr College, 1894–95.
North Av. and Second St.

JACOB H. HOLLANDER, PH. D., *Associate Professor of Finance.* [Absent.]
A. B., Johns Hopkins University, 1891, Fellow, 1893–94, and Ph. D., 1894; *Treasurer of the Island of Porto Rico.*

CHRISTOPHER JOHNSTON, JR., PH. D., *Associate Professor of Oriental History and Archæology.* 709 St. Paul St.
B. Litt., University of Virginia, 1876, A. B., 1878, and A. M., 1879; M. D., University of Maryland, 1880; Fellow, Johns Hopkins University, 1889–91, and Ph. D., 1894.

C. CARROLL MARDEN, PH. D., *Associate Professor of Spanish.* 2205 Oak St.
A. B., Johns Hopkins University, 1889, and Ph. D., 1894; Instructor, University of Michigan, 1890–91.

EDWARD B. MATHEWS, PH. D., *Associate Professor of Mineralogy.*
A. B., Colby University, 1891; Fellow, Johns Hopkins University, 1893–94, and Ph. D., 1894.
1413 Linden Av.

WESTEL W. WILLOUGHBY, PH. D., *Associate Professor of Political Science.*
A. B., Johns Hopkins University, 1888, Fellow, 1890–91, and Ph. D., 1891. Roland Park.

WILLIAM W. RUSSELL, M. D., *Associate Professor of Gynecology.*
M. D., University of Pennsylvania, 1890; *Head of the Gynecological Clinic, the Johns Hopkins Dispensary.*
700 N. Howard St.

THOMAS S. CULLEN, M. B., *Associate Professor of Gynecology.*
M. B., University of Toronto, 1890; *Associate in Gynecological Pathology, Johns Hopkins Hospital.*
3 W. Preston St.

REID HUNT, PH. D., M. D., *Associate Professor of Pharmacology.*
A. B., Johns Hopkins University, 1891, Fellow, 1894-95, and Ph. D., 1896; M. D., College of Physicians and Surgeons (Balt.), 1896; Tutor in Physiology, Columbia University, 1896-98.
1314 McCulloh St.

HARRY C. JONES, PH. D., *Associate Professor of Physical Chemistry.*
A. B., Johns Hopkins University, 1889, Fellow, 1891-92, and Ph. D., 1892. 1128 McCulloh St.

PHILIP R. UHLER, LL. D., *Associate in Natural History.* 254 W. Hoffman St.
LL. D., New York University, 1900; Provost and Librarian of the Peabody Institute; President of the Maryland Academy of Sciences.

BERNARD C. STEINER, PH. D., *Associate in History.* 1038 N. Eutaw St.
A. B., Yale University, 1888, and A. M., 1890; Fellow, Johns Hopkins University, 1890-91, and Ph. D., 1891; LL. B., University of Maryland, 1894; Instructor in Williams College, 1891-92, Professor of Constitutional Law, Baltimore University, 1897-1900; Dean and Professor of Public Law, Baltimore Law School; Librarian, Enoch Pratt Free Library.

ROBERT L. RANDOLPH, M. D., *Associate in Ophthalmology and Otology.*
M. D., University of Maryland, 1884; *Assistant Ophthalmic and Aural Surgeon, the Johns Hopkins Hospital and Dispensary.*
816 Park Av.

THOMAS B. FUTCHER, M. B., *Associate in Medicine.*
M. B., University of Toronto, 1893; *Resident Physician, the Johns Hopkins Hospital.*
The Johns Hopkins Hospital.

WILLIAM J. A. BLISS, PH. D., *Associate in Physics.* 1017 St. Paul St.
A. B., Harvard University, 1888; Ph. D., Johns Hopkins University, 1894.

JOSEPH C. BLOODGOOD, M. D., *Associate in Surgery.* 923 N. Charles St.
S. B., University of Wisconsin, 1888; M. D., University of Pennsylvania, 1891; *Associate in Surgery, the Johns Hopkins Hospital.*

JAMES C. BALLAGH, PH. D., *Associate in History.* 1312 John St.
A. B., Johns Hopkins University, 1894, and Ph. D., 1895.

ABRAHAM COHEN, PH. D., *Associate in Mathematics.* 1744 Park Av.
A. B., Johns Hopkins University, 1891, Fellow, 1893-94, and Ph. D., 1894.

J. ELLIOTT GILPIN, PH. D., *Associate in Chemistry.* 139 W. Lanvale St.
A. B., Johns Hopkins University, 1889, and Ph. D., 1892.

GEORGE C. KEIDEL, PH. D., *Associate in Romance Languages.* Catonsville.
A. B., Johns Hopkins University, 1889, Fellow, 1893-95, and Ph. D., 1895.

EDWARD C. ARMSTRONG, PH. D., *Associate in Romance Languages.* [Absent.]
A. B., Randolph-Macon College, 1890, and A. M., 1894; Fellow, Johns Hopkins University, 1896-97, and Ph. D., 1897.

CHARLES R. BARDEEN, M. D., *Associate in Anatomy.* 412 N. Broadway.
A. B., Harvard University, 1893; M. D., Johns Hopkins University, 1897.

HARVEY CUSHING, M. D., *Associate in Surgery.* [Absent.]
A. B., Yale University, 1891; A. M. and M. D., Harvard University, 1895; *Resident Surgeon, the Johns Hopkins Hospital.*

GEORGE W. DOBBIN, M. D., *Associate in Obstetrics.* 923 N. Charles St.
A. B., Johns Hopkins University, 1891; M. D., University of Maryland, 1894; Resident Obstetrician, the Johns Hopkins Hospital, 1896-99.

N. ERNEST DORSEY, PH. D., *Associate in Physics.* Annapolis Junction.
A. B., Johns Hopkins University, 1893, Fellow, 1896-97, and Ph. D., 1897.

DUNCAN S. JOHNSON, PH. D., *Associate in Botany.* 930 Madison Av.
S. B., Wesleyan University, 1892; Fellow, Johns Hopkins University, 1896-97, Ph. D., 1897, and Bruce Fellow, 1897-98.

WALTER JONES, PH. D., *Associate in Physiological Chemistry and Toxicology.*
A. B., Johns Hopkins University, 1888, and Ph. D., 1891; Professor of Analytical Chemistry, Purdue University, 1892–95.
40 E. Twenty-fifth St.

PHILIP OGDEN, PH. D., *Associate in Romance Languages.* 1534 Park Av.
A. B., Cornell University, 1891; Ph. D., Johns Hopkins University, 1897.

GEORGE B. SHATTUCK, PH. D., *Associate in Physiographic Geology.*
S. B., Amherst College, 1892; Fellow, Johns Hopkins University, 1896–97, and Ph. D., 1897.
Sudbrook Park.

HARRY L. WILSON, PH. D., *Associate in Latin.* 311 Dolphin St.
A. B., Queen's University (Ont.), 1887, and A. M., 1888; Fellow, Johns Hopkins University, 1895, and Ph. D., 1896.

NORMAN MACL. HARRIS, M. B., *Associate in Bacteriology.*
M. B., University of Toronto, 1894. 1020 N. Broadway.

WILLIAM G. MACCALLUM, M. D., *Associate in Pathology.*
A. B., University of Toronto, 1894; M. D., Johns Hopkins University, 1897; *Resident Pathologist, the Johns Hopkins Hospital.*
The Johns Hopkins Hospital.

JOHN B. WHITEHEAD, A. B., *Associate in Applied Electricity.*
Proficient in Applied Electricity, Johns Hopkins University, 1893, and A. B., 1898; Member, American Institute of Electrical Engineers.
2000 Maryland Av.

S. EDWIN WHITEMAN, *Instructor in Drawing.* 201 W. Madison St.
École des Beaux-Arts, Paris.

MELVIN BRANDOW, A. B., *Assistant Librarian.* 2914 Evergreen Terrace.
A. B., Rutgers College, 1888; Fellow, Johns Hopkins University, 1892–93.

FRANK R. SMITH, M. D., *Instructor in Medicine.* 1126 Cathedral St.
A. M., University of Cambridge (England), 1883; M. D., University of Maryland, 1891; *Head of the Medical Clinic, the Johns Hopkins Dispensary.*

H. BARTON JACOBS, M. D., *Instructor in Medicine.* 3 W. Franklin St.
A. B., Harvard University, 1883, M. D., 1887, and Assistant in Botany, 1883–85; *Clinical Assistant, the Johns Hopkins Dispensary.*

STEWART PATON, M. D., *Assistant in Clinical Neurology.*
A. B., Princeton University, 1886, and A. M., 1889; M. D., College of Physicians and Surgeons (N. Y.), 1889; Director of the Laboratory, Sheppard and Pratt Hospital. 213 W. Monument St.

OLIVER L. FASSIG, PH. D., *Instructor in Meteorology.* 1307 Mt. Royal Av.
S. B., Ohio State Univ., 1892; Ph. D., Johns Hopkins Univ., 1899; Observer, U. S. Weather Bureau.

HUGH H. YOUNG, M. D., *Instructor in Genito-Urinary Diseases.*
A. B. and A. M., University of Virginia, 1893, and M. D., 1894; *Head of the Genito-Urinary Clinic, the Johns Hopkins Dispensary.*
1005 N. Charles St.

ELIZABETH HURDON, M. D., *Assistant in Gynecology.* 5 W. Chase St.
M. D., Trinity University (Toronto), 1895; *Assistant in Gynecology, the Johns Hopkins Dispensary.*

HENRY O. REIK, M. D., *Assistant in Ophthalmology and Otology.*
M. D., University of Maryland, 1891; *Assistant in Ophthalmology and Otology, the Johns Hopkins Dispensary.*
5 W. Preston St.

GUY CARLETON LEE, PH. D., *Instructor in History.* 1707 Bolton St.
LL. B., University of North Carolina, 1894; A. B. and LL. M., Dickinson College, 1895; Fellow, Johns Hopkins University, 1897–98, and Ph. D., 1898.

LEWIS E. JEWELL, *Assistant in Practical Photography and Spectroscopy.*
1122 Mosher St.

MURRAY P. BRUSH, PH. D., *Instructor in Romance Languages.*
A. B., Princeton University, 1894; Ph. D., Johns Hopkins University, 1898; Instructor in Ohio State University, 1898–99.
1118 N. Calvert St.

PERCY M. DAWSON, M. D., *Instructor in Physiology.* 1640 E. Fayette St.
A. B., Johns Hopkins University, 1894, M. D., 1898, and Fellow, 1898-99.

LOUIS P. HAMBURGER, M. D., *Assistant in Medicine.* 1501 Eutaw Place.
A. B., Johns Hopkins University, 1893, and M. D., 1897; *Assistant in the Medical Clinic, the Johns Hopkins Dispensary.*

THOMAS MCCRAE, M. R. C. S., *Instructor in Medicine.*
A. B., University of Toronto, 1891, and M. B., 1895; M. R. C. S. (England), 1900; *First Assistant Resident Physician, the Johns Hopkins Hospital.* The Johns Hopkins Hospital.

EUGENE L. OPIE, M. D., *Instructor in Pathology.*
A. B., Johns Hopkins University, 1893, M. D., 1897, and Fellow, 1898-99; *Assistant Resident Pathologist, the Johns Hopkins Hospital.* The Johns Hopkins Hospital.

MERVIN T. SUDLER, PH. D., M. D., *Instructor in Anatomy.* 849 N. Eutaw St.
S. B., Maryland Agricultural College, 1894; Ph. D., Johns Hopkins University, 1899; M. D., College of Physicians and Surgeons (Balt.), 1901.

MORRIS C. SUTPHEN, PH. D., *Instructor in Latin.* 718 N. Howard St.
A. B., Princeton University, 1890, and A. M., 1893; Ph. D., Johns Hopkins University, 1899.

HENRY MCE. KNOWER, PH. D., *Instructor in Anatomy.* The Albion.
A. B., Johns Hopkins University, 1890, Fellow, 1894-95, Bruce Fellow, 1895-96, and Ph. D., 1896; Instructor in Williams College, 1896-97.

WILLIAM M. MACKDERMOTT, *Director of Physical Training.*
1627 Eutaw Place.

GEORGE E. BARNETT, Ph. D., *Assistant in Economics.* 1205 McCulloh St.
A. B., Randolph-Macon College, 1891; Fellow, Johns Hopkins University, 1899-1900, and Ph. D., 1901.

WILLIAM S. BAER, M. D., *Assistant in Orthopaedic Surgery.*
A. B., Johns Hopkins University, 1894, and M. D., 1898; *Assistant in Orthopaedic Surgery, the Johns Hopkins Hospital.* 21 W. Franklin St.

CHARLES P. EMERSON, M. D., *Instructor in Medicine.*
A. B., Amherst College, 1894; M. D., Johns Hopkins University, 1899; *Assistant Resident Physician in charge of Clinical Laboratory, the Johns Hopkins Hospital.*
The Johns Hopkins Hospital.

WILLIAM KURRELMEYER, PH. D., *Assistant in German.* 1051 S. Eutaw St.
A. B., Johns Hopkins University, 1896, Fellow, 1897-99, and Ph. D., 1899; Professor of Modern Languages, Franklin and Marshall College, 1899-1900.

WARREN H. LEWIS, M. D., *Assistant in Anatomy.* 122 Jackson Place.
S. B., University of Michigan, 1896; M. D., Johns Hopkins University, 1900.

FRANK W. LYNCH, M. D., *Assistant in Obstetrics.*
A. B., Adelbert College, 1895; M. D., Johns Hopkins University, 1899; *Resident Obstetrician, the Johns Hopkins Hospital.* The Johns Hopkins Hospital.

JOHN B. MACCALLUM, M. D., *Assistant in Anatomy.* 1305 Maryland Av.
A. B., University of Toronto, 1896; M. D., Johns Hopkins University, 1900.

HARRY T. MARSHALL, M. D., *Assistant in Pathology.* 213 W. Lanvale St.
A. B., Johns Hopkins University, 1894, M. D., 1898, and Fellow, 1899-1900.

J. EUSTACE SHAW, PH. D., *Instructor in Italian.* 1314 McCulloh St.
A. B., Johns Hopkins University, 1896, Fellow, 1899-1900, and Ph. D., 1900.

DANIEL N. SHOEMAKER, S. B., *Assistant in Zoology.* 906 McCulloh St.
S. B., Earlham College, 1894.

H. WARREN BUCKLER, M. D., *Assistant in Obstetrics.* 804 Cathedral St.
A. B., Johns Hopkins University, 1895, and M. D., 1899; *Clinical Assistant, the Johns Hopkins Dispensary.*

JOSEPH ERLANGER, M. D., *Assistant in Physiology.* 126 Jackson Place.
S. B., University of California, 1895; M. D., Johns Hopkins University, 1899, and Fellow, 1900.

WILLIAM B. HUFF, PH. D., *Assistant in Physics.* 315 W. Hoffman St.
A. B., University of Wisconsin, 1889; A. M., University of Chicago, 1896; Ph. D., Johns Hopkins University, 1900.

PERCY G. STILES, S. B., *Assistant in Physiology.* 1006 N. Broadway.
S. B., Massachusetts Institute of Technology, 1897; Fellow, Johns Hopkins University, 1900.

GEORGE WALKER, M. D., *Instructor in Surgery.* 529 N. Charles St.
M. D., University of Maryland, 1889; *Head of the Surgical Clinic, the Johns Hopkins Dispensary.*

SAMUEL AMBERG, M. D., *Assistant in Pediatrics.* 1709 Madison Av.
M. D., University of Heidelberg, 1898; *Clinical Assistant, the Johns Hopkins Dispensary.*

NATHAN E. B. IGLEHART, M. D., *Assistant in Surgery.* 16 W. Preston St.
M. D., University of Maryland, 1889; *Head of the Surgical Clinic, the Johns Hopkins Dispensary.*

JAMES F. MITCHELL, M. D., *Instructor in Surgery.*
A. B., Johns Hopkins University, 1891, and M. D., 1897; *Resident Surgeon, the Johns Hopkins Hospital.* The Johns Hopkins Hospital.

MACTIER WARFIELD, M. D., *Instructor in Laryngology.* 15 W. Franklin St.
A. B., Johns Hopkins University, 1881; M. D., University of Maryland, 1884; *Head of the Laryngological and Rhinological Clinic, the Johns Hopkins Dispensary.*

LECTURERS DURING THE YEAR, 1900-1901.

On the Turnbull Foundation.

HAMILTON W. MABIE, LITT. D., of New York.
Seven lectures on *Poetry in America.*

On the Donovan Foundation.

FREDERIC HARRISON, ESQ., of London, England.
Two lectures on *King Alfred.*

FREDERICK H. SYKES, PH. D., of Philadelphia.
Six lectures on *Shakespare.* [In the course for teachers.]

Course provided by the Maryland Society of Colonial Dames.

CHARLES WM. SOMMERVILLE, PH. D., of Baltimore.
Six lectures on *Maryland Colonial Biography.*

Before separate departments of the University.

Medical School.

ALEXANDER C. ABBOTT, M. D., Professor of Hygiene and Director of the Laboratory of Hygiene, University of Pennsylvania.

JOHN S. BILLINGS, M. D., LL. D., Surgeon, U. S. Army, and late Librarian of the Surgeon-General's Office; Director of the New York Public Library.

ROBERT FLETCHER, M. D., M. R. C. S. (Eng.), Surgeon, U. S. Army.

CH. WARDELL STILES, PH. D., Zoologist of the Bureau of Animal Industry, U. S. Department of Agriculture.

Systematic Botany.

BOLLING W. BARTON, M. D., of Baltimore.

Department of Geology.

Professor CLEVELAND ABBE, PH. D., LL. D., of the U. S. Weather Bureau.
Meteorology.

L. A. BAUER, Ph. D., of the U. S. Coast and Geodetic Survey.
Terrestrial Magnetism.

BAILEY WILLIS, C. E., M. E., of the U. S. Geological Survey.
Stratigraphic and Structural Geology.

German.

THOMAS S. BAKER, PH. D., of the Jacob Tome Institute.
German Literature.

Historical and Political Science.

FREDERICK BANCROFT, PH. D., of Washington.
Twelve lectures on *United States History during the period from* 1836 to 1861.

POULTNEY BIGELOW, ESQ., of New York.
Two lectures on the *Establishment and Treatment of Colonies*, with especial reference to Latin and Dutch Colonization.

JEFFREY R. BRACKETT, PH. D., of Baltimore.
Ten lectures on *Public Aid, Charities, and Correction.*

EDWARD D. DURAND, PH. D., of Leland Stanford, Jr. University.
Twenty-eight lectures on *Principles of Taxation.*

Professor DAVID F. HOUSTON, of the University of Texas.
Three lectures on *United States History from* 1816 *to* 1835.

Professor JOHN BASSETT MOORE, of Columbia University.
Two lectures on *International Questions*, especially the *Treaty with Spain* and the *Policy of the United States in the Far East.*

Professor JAMES H. ROBINSON, of Columbia University.
Two lectures on *Petrarch.*

Professor JAMES SCHOULER, of Boston University, author of "History of the United States under the Constitution."
Four lectures on *American Historical Biography.*

WILLIAM F. WILLOUGHBY, A. B., of the U. S. Department of Labor.
Twenty-eight lectures on *Labor Problems* and *Social Economics.*

Romance Languages.

HUGO P. THIEME, PH. D., of the University of Michigan.
French Versification.

Professor FREDERICK M. WARREN, PH. D., of Adelbert College.
French Literature.

Education.

SAMUEL E. FORMAN, PH. D., of Baltimore.
Eight lectures on *Educational Topics.* [In the course for teachers.]

Additional Assistants for the Current Year.

The following names are those of students who render more or less service to the university in the departments named. In the enumeration, as in former years, such persons are not counted as members of the academic staff:

R. M. Bird, A. B.—*Chemistry.*
F. R. Blake, A. B.—*Semitic Lang.*
W. B. Carver, Ph. B.—*Public Speaking.*
V. J. Chambers, S. B.—*Chemistry.*
A. B. Coble, A. B.—*Mathematics.*
F. L. Critchlow, A. B.—*French.*
J. C. French, A. B.—*English.*
L. M. Gaines, A. B.—*Pathology.*
W. E. Gould, A. B.—*Spanish.*
K. J. Grimm, Ph. D.—*Semitic Lang.*
H. H. Hindshaw, S. B.—*Geology.*
J. Hofmann.—*German.*
A. Johannsen, S. B.—*Geology.*
W. T. Longcope, A. B.—*Bacteriology.*
E. C. McGouldrick, A. B.—*Physiol. Chem.*
R. D. Miller, A. B.—*English.*
G. Oussani, A. B.—*Arabic, Latin, and Italian Conversation.*
H. F. Perkins, A. B.—*Y. M. C. A.*
W. Rosenau, Ph. D.—*Semitic Lang.*
J. J. Rutledge, S. B.—*Geology.*
D. H. Tennent, S. B.—*Zoology.*
L. S. Weaver, A. B.—*Physiol. Chem.*
W. S. Weedon, S. B.—*Chemistry.*

Internes and Externes of the Johns Hopkins Hospital and Dispensary, 1900–01.

The following graduates of the Johns Hopkins Medical School are Resident House Officers in the Johns Hopkins Hospital:

Herbert Williams Allen, M. D.
S. B., University of California, 1896; M. D., Johns Hopkins University, 1900.

Milton Bettmann, M. D.
A. B., Harvard University, 1897; M. D., Johns Hopkins University, 1900.

Curtis Field Burnam, M. D.
A. B., Central University (Ky.), 1895; M. D., Johns Hopkins University, 1900.

Arthur Lawrence Fisher, M. D.
S. B., University of California, 1896; M. D., Johns Hopkins University, 1900.

William Alexander Fisher, Jr., M. D.
A. B., Princeton University, 1896; M. D., Johns Hopkins University, 1900.

Richard Foster Rand, M. D.
Ph. B., Yale University, 1895; M. D., Johns Hopkins University, 1900.

Dorothy M. Reed, M. D.
B. L., Smith College, 1895; M. D., Johns Hopkins University, 1900.

Glanville Yeisley Rusk, M. D.
A. B., Johns Hopkins University, 1896, and M. D., 1900.

Florence Rena Sabin, M. D.
S. B., Smith College, 1893; M. D., Johns Hopkins University, 1900.

William Francis Mattingly Sowers, M. D.
A. B., Princeton University, 1896; M. D., Johns Hopkins University, 1900.

Paul Gerhardt Woolley, M. D.
S. B., University of Chicago, 1896; M. D., Johns Hopkins University, 1900.

The following are Externes of the Hospital and Dispensary:

Alma Emerson Beale, M. D.
A. B., Wellesley College, 1891; M. D., Johns Hopkins University, 1900.

Herman Brülle, M. D.
A. B. and S. B., Hampden-Sidney College, 1895; M. D., Johns Hopkins University, 1900.

Clelia Duel Mosher, M. D.
A. B., Leland Stanford Jr. University, 1893; M. D., Johns Hopkins University, 1900.

GRADUATE STUDENTS.

FELLOWS BY COURTESY.

LYMAN JAMES BRIGGS. Washington, D. C. *Washington.*
S. B., Michigan Agricultural College, 1893; M. S., University of Michigan, 1895. *Physics, Physical Chemistry, and Mathematics.*

JOHN BASCOM CRENSHAW. Baltimore. 938 *Madison Av.*
A. M., Randolph-Macon College, 1881; Ph. D., Johns Hopkins University, 1893, and late Instructor. *German.*

WILLIAM ELFORD GOULD. New York, N. Y. 935 *McCulloh St.*
A. B., Columbia University, 1879. *Spanish, French, and History.*

DAVID WILBUR HORN. Carlisle, Pa. 750 *N. Eutaw St.*
A. B., Dickinson College, 1897, and A. M., 1898; Ph. D., Johns Hopkins University, 1900. *Chemistry.*

WALTER HULLIHEN. Staunton, Va. *Walbrook.*
A. B. and A. M., University of Virginia, 1896; Fellow, Johns Hopkins University, 1899–1900, and Ph. D., 1900. *Latin.*

GEORGE OSCAR JAMES. Bowers Hill, Va. 706 *St. Paul St.*
A. B., Johns Hopkins University, 1895, Fellow, 1898–1899, and Ph. D., 1899. *Mathematics.*

JAMES WILLIAM KERN. Alexandria, Va. 714 *Park Av.*
University of Virginia, 1881; Ph. D., Johns Hopkins University, 1899. *Greek.*

JOHN MOFFATT MECKLIN. Dalton, Ga. 1122 *McCulloh St.*
A. B., Southwestern Presbyterian University, 1890; Ph. D., University of Leipsic, 1899. *Greek.*

EDWARD LINDON MELLUS. Baltimore. 10 *E. Chase St.*
M. D., Jefferson Medical College, 1878. *Anatomy.*

JENS ANDERSON NESS. Red Wing, Minn. 622 *Dolphin St.*
A. B., Luther College, 1884, and A. M., 1890; Fellow, Johns Hopkins University, 1896-98; Associate, University of Chicago, 1900. *Sanskrit, Greek, and Latin.*

MARATHON MONTROSE RAMSEY. Washington, D. C. 2823 *W. North Av.*
S. B., Columbian University, 1894, and A. M., 1895; late Professor of Romance Languages in Columbian University. *Spanish, French, and History.*

GEORGE BURR RICHARDSON. New York, N. Y. *Washington.*
S. B., Harvard University, 1895; Fellow, Johns Hopkins University, 1899-1900; U. S. Geological Survey. *Geology, Mineralogy, and Chemistry.*

Rev. WILLIAM ROSENAU. Baltimore. 725 *Lennox St.*
A. B., University of Cincinnati, 1888; Hebrew Union College of Cincinnati, 1889; Ph. D., Johns Hopkins University, 1900. *Semitic Languages.*

REV. CHARLES WILLIAM SOMMERVILLE. White Post, Va. 35 *S. Stricker St.*
A. B. and S. B., Hampden-Sidney College, 1890, and A. M., 1896; Union Theological Seminary (Va.), 1895; Ph. D., Johns Hopkins University, 1899; formerly Professor in Hampden-Sidney College. *History.*

HENRY SKINNER WEST. Baltimore. 2100 *St. Paul St.*
A. B., Johns Hopkins University, 1893, Fellow, 1898–1899, Ph. D., 1899, and Assistant, 1899–1900; Principal, Western High School, Baltimore.

(15)

ADAM T. BRUCE FELLOWSHIP IN BIOLOGY.

CASWELL GRAVE. Monrovia, Ind. 1125 *Argyle Av.*
S. B., Earlham College, 1895; Fellow, Johns Hopkins University, 1898–99, and Ph. D., 1899. *Zoology.*

LAWRENCE EDMONDS GRIFFIN. Hamline, Minn. *Cleveland, O.*
A. B. and Ph. B., Hamline University, 1898; Fellow, Johns Hopkins University, 1899–1900, and Ph. D., 1900. *Zoology.* [Appointed for the Summer of 1900.]

William S. Rayner Fellowship in Semitic Languages.

Karl Josef Grimm. Baltimore. 429 *N. Gilmor St.*
Fellow, Johns Hopkins University, 1898-99, and Ph. D., 1899. *Semitic Languages.*

Fellows.

Herbert Thompson Archibald. Halifax, N. S. 1122 *McCulloh St.*
A. B., Dalhousie University, 1897, and A. M., 1898. *Greek, Latin, and Sanskrit.*

George Ernest Barnett. Mocksville, N. C. 1205 *McCulloh St.*
A. B., Randolph-Macon College, 1891; Ph. D., Johns Hopkins University, 1901. *Economics, History, and Politics.* [*Resigned, to become Assistant in Economics.*]

Frank Ringgold Blake. Baltimore. 2106 *Oak St.*
A. B., Johns Hopkins University, 1897. *Semitic Philology, Sanskrit, and German.*

George Dobbin Brown. Howard County. *St. Denis.*
A. B., Johns Hopkins University, 1895. *English, German, and French.*

Benjamin Palmer Caldwell. New Orleans, La. 919 *McCulloh St.*
A. B., Tulane University, 1893, B. E., 1895, and Ch. E., 1897; Ph. D., Johns Hopkins University, 1901. *Chemistry, Physical Chemistry, and Physics.*

Howard Vernon Canter. Cantersburg, Va. [*Absent.*]
A. B., Washington and Lee University, 1896. *Latin, French, and Spanish.* [*Resigned, because of ill-health.*]

Winterton Conway Curtis. The Dalles, Ore. 1128 *McCulloh St.*
A. B., Williams College, 1897, and A. M., 1898. *Zoology, Physiology, and Paleontology.*

Waverley Bayard Daniel. Wake Forest, N. C. 1217 *Madison Av.*
A. M., Wake Forest College, 1892. *Latin, Greek, and Roman Law.*

Joseph Erlanger. San Francisco, Cal. 126 *Jackson Place.*
S. B., University of California, 1895; M. D., Johns Hopkins University, 1899. *Pathology.* [*Resigned, to become Assistant in Pathology.*]

Rev. Arthur Henry Ewing. Ludhiana, India. *P. O. Station* 209.
A. B., Washington and Jefferson College, 1887; Western Theological Seminary, 1890; Ph. D., Johns Hopkins University, 1901. *Sanskrit, Philosophy, and Arabic.*

Joseph Christie Whitney Frazer. Lexington, Ky. 1217 *Madison Av.*
S. B., Kentucky State Coll., 1897, and M. S., 1898. *Chemistry, Physics, and Physical Chem.*

Norman Everett Gilbert. Middletown, Conn. 1311 *Linden Av.*
A. B., Wesleyan University, 1895, and A. M., 1896; Ph. D., Johns Hopkins University, 1901. *Physics, Mathematics, and Astronomy.*

Roscoe Guernsey. East Cobleskill, N. Y. 1122 *McCulloh St.*
A. B., Union College, 1896, and A. M., 1899. *Greek, Latin, and Sanskrit.*

Fred Cole Hicks. Tipton, Iowa. 1104 *Myrtle Av.*
Ph. B., Cornell College, 1896. *German, French, and History.*

George Curtis Martin. Adams, Mass. 1030 *N. Eutaw St.*
S. B., Cornell University, 1896. *Geology, Mineralogy, and Biology.*

William Elejius Martin. Havana, Ala. 1126 *McCulloh St.*
A. M., Southern University (Ala.), 1896. *History, Economics, and Philosophy.*

Charles Alfred Mosemiller. New Albany, Ind. 921 *McCulloh St.*
A. B., Indiana University, 1890. *French, Spanish, and Arabic.*

ROLAND JESSUP MULFORD. Friendsville, Pa. *The Country School.*
A. B., Harvard University, 1893, and LL. B., 1896. *Politics, History, and Economics.*

LOUIS ALEXANDER PARSONS. Burlington, Iowa. 315 *W. Hoffman St.*
A. B., Iowa State University, 1895, and A. M., 1899. *Physics, Mathematics, and Chemistry.*

ISRAEL EUCLID RABINOWITCH. Baltimore. 1131 *Argyle Av.*
University of Pennsylvania. *Mathematics, Physics, and Philosophy.*

CHARLES SIDNEY SMITH. Princeton, N. J. *Washington.*
A. B., Princeton University, 1888, and A. M., 1891. *Latin.* [*Resigned, to become an Assistant Professor in Columbian University.*]

PERCY GOLDTHWAITE STILES. Newtonville, Mass. 1006 *N. Broadway.*
S. B., Massachusetts Institute of Technology, 1897. *Physiology, Zoology, and Physiological Chemistry.* [*Resigned, to become Assistant in Physiology.*]

GORDON WILSON. Baltimore. *The Johns Hopkins Hospital.*
M. D., University of Virginia, 1899. *Pathology.*

(23)

UNIVERSITY SCHOLARS.

GEORGE OLAF BERG. Sacred Heart, Minn. 1024 *McCulloh St.*
A. B., St. Olaf College, 1899. *Greek, Latin, and Sanskrit.*

CHARLES EDWARD BROOKS. Baltimore County. *Lake Roland.*
A. B., Johns Hopkins University, 1900. *Chemistry.*

ALBERT EUGENE CURDY. Orchard Lake, Mich. 1211 *Madison Av.*
A. B., University of Kansas, 1885. *French, Spanish, and Philosophy.*

JOHN HOWARD EAGER, JR. Baltimore. 1405 *McCulloh St.*
A. B., Johns Hopkins University, 1900. *Romance Languages.*

PHILIP HOWARD EDWARDS. Baltimore. 2013 *E. Chase St.*
A. B., St. John's College, 1898. *Latin, German, and Greek.*

JACOB EMBRY. Waxahachie, Texas. 410 *W. Hoffman St.*
B. Lit., Kentucky University, 1897, and M. Lit., 1899. *English, German, and French.*

JOHN AUGUSTINE ENGLISH EYSTER. Baltimore. 1700 *Linden Av.*
S. B., Maryland Agricultural College, 1899. *Zoology, Botany, and Physiology.*

JAMES WARNER HARRY. Dublin. 906 *McCulloh St.*
A. B., Georgetown College (Ky.), 1899. *History, Economics, and Politics.*

JOHN GALE HUN. Albany, N. Y. 1114 *McCulloh St.*
A. B., Williams College, 1899. *Mathematics.*

EDWARD PECHIN HYDE. Baltimore. 1100 *E. North Av.*
A. B., Johns Hopkins University, 1900. *Physics.*

HERMAN KURRELMEYER. Baltimore. 1051 *S. Eutaw St.*
A. B., Johns Hopkins University, 1899. *German.*

GEORGE WILES MIDDLEKAUFF. Leitersburg. 1128 *McCulloh St.*
A. B., Franklin and Marshall College, 1891, and A. M., 1894. *Physics, Mathematics, and Chemistry.*

BENJAMIN LEROY MILLER. Oskaloosa, Ia. 410 *W. Hoffman St.*
A. B., University of Kansas, 1897; A. M., Penn College, 1898. *Geology.*

ROBERT BRUCE ROULSTON. Baltimore. 628 *N. Arlington Av.*
A. B., Johns Hopkins University, 1900. *Latin.*

FRANK PEYTON ROUS. Baltimore. 252 *W. Hoffman St.*
A. B., Johns Hopkins University, 1900. *Medicine.*

(15)

PHILOSOPHICAL STUDENTS.

FRANCIS MARION AUSTIN. Washington, D.C. *Washington.*
A. B., Ohio Wesleyan University, 1887, and A. M., 1890. *Latin, Greek, and Sanskrit.*

JAMES BARNES. Halifax, N. S. 906 *McCulloh St.*
A. B., Dalhousie University, 1899, and A. M., 1900. *Physics and Mathematics.*

JOHN HENDLEY BARNHART. Tarrytown, N. Y. 930 *Madison Av.*
A. B., Wesleyan University, 1892, and A. M., 1893; M. D., College of Physicians and Surgeons (N. Y.), 1896. *Botany.*

LE ROY CARR BARRET. Richmond, Mo. 149 *W. Lafayette Av.*
A. B., Washington and Lee University, 1897, and A. M., 1898. *Latin, Greek, and Sanskrit.*

JAMES THOMAS BARRETT. South Salem, O. 1314 *McCulloh St.*
A. B., Wooster University, 1895. *Physics, Mathematics, and Chemistry.*

WILLIAM DENNY BASKETT. Fayette, Mo. 921 *McCulloh St.*
A. B., Central College (Mo.), 1900. *English, German, and History.*

GEORGE CARLTON BECK. Williamsport, Pa. 2223 *N. Charles St.*
S. B., Williamsport Dickinson Seminary, 1897. *Chemistry.*

ARTHUR BIBBINS. Baltimore. 2307 *N. Charles St.*
Ph. B., Albion College, 1897. *Geology.*

ROBERT MONTGOMERY BIRD. Petersburg, Va. 303 *E. Lanvale St.*
A. B. and S. B., Hampden-Sidney College, 1897. *Chemistry, Physics, and Mathematics.*

IRVING HALL BLACKWELL. Broadrun, Va. 916 *McCulloh St.*
A. B., Randolph-Macon College, 1896. *Latin, Sanskrit, and Greek.*

JAY ALLAN BONSTEEL. Baltimore. 1021 *McCulloh St.*
S. B., Cornell University, 1896. *Geology, Petrography, and Physics.*

Rev. WILLIAM WALKE BRANDER. Baltimore. 1401 *Linden Av.*
Virginia Military Inst., 1887; Virginia Theological Sem., 1891. *History, Politics, and Philosophy.*

JOSHUA ROBERT CALLAWAY BROWN. Penn Laird, Va. 1212 *McCulloh St.*
A. B., Hampden-Sidney College, 1895. *Chemistry, Physics, and Mathematics.*

HORACE CAMPBELL. Edinburg, Va. 1032 *N. Eutaw St.*
A. B., Randolph-Macon College, 1897. *Economics, History, and Politics.*

ROBERT WALTER CAMPBELL. Augusta, Ga. 649 *W. Franklin St.*
A. B., Emory College, 1897. *Romance Languages.*

BENJAMIN FRANKLIN CARVER. Hanover, Pa. 1311 *Linden Av.*
S. B., Pennsylvania College, 1900. *Chemistry, Physical Chemistry, and Mineralogy.*

WALTER BUCKINGHAM CARVER. Stewartstown, Pa. 1030 *N. Eutaw St.*
Ph. B., Dickinson College, 1899. *Mathematics.*

WILLIAM ASBURY CASE. Baltimore. 412 *E. Randall St.*
S. B., St. John's College, 1894, and A. M., 1897; M. S., Columbian University, 1895. *Chemistry, Physics, and Mathematics.*

GEORGE CATOR. Baltimore. 803 *St. Paul St.*
Economics.

VICTOR JOHN CHAMBERS. Rochester, N. Y. 1122 *Madison Av.*
S. B., University of Rochester, 1896. *Chemistry, Physical Chemistry, and Botany.*

JOHN ALLAN CHILD. Lakewood, N. J. 706 *St. Paul St.*
A. B., Harvard University, 1900. *Romance Languages.*

FRIEND EBENEZER CLARK. New Martinsville, W. Va. 1124 *McCulloh St.*
S. B., West Virginia University, 1898. *Chemistry, Physical Chemistry, and Geology.*

ARTHUR BYRON COBLE. Lykens, Pa. 1311 *Linden Av.*
A. B., Pennsylvania College, 1897. *Mathematics, Physics, and Astronomy.*

WILLIAM CHAMBERS COKER. Wilmington, N. C. 906 *McCulloh St.*
S. B., South Carolina College, 1894. *Botany, Zoology, and Geology.*

HENRY AUGUSTUS CONVERSE. Harrisonburg, Va. 1212 *McCulloh St.*
A. B., Hampden-Sidney College, 1893. *Mathematics and Philosophy.*

RHEINART PARKER COWLES. Los Angeles, Cal. 917 *McCulloh St.*
A. B., Stanford University, 1899. *Zoology, Physiology, and Physiological Chemistry.*

WILLIAM JAMES CRIST. Steam Valley, Pa. 1721 *McCulloh St.*
Ph. B., Dickinson College, 1897, and A. M., 1899. *Physics, Mathematics, and Chemistry.*

FRANK LINLEY CRITCHLOW. East Northfield, Mass. 219 *W. Monument St.*
A. B., Princeton University, 1896, and A. M., 1897. *Romance Languages.*

HARRY ISAAC CROSS. Hartford, Conn. 1013 *McCulloh St.*
S. B., Worcester Polytechnic Institute, 1900. *Mathematics.*

ERNEST CRUIKSHANK. Baltimore. 2004 *N. Charles St.*
A. B., Washington College, 1897, and A. M., 1898. *German and French.*

JAMES TEACKLE DENNIS. Baltimore. 1008 *N. Calvert St.*
Lafayette College. *Semitic Languages.*

JAMES MCDOWELL DOUGLAS. Gastonia, N. C. 1325 *Linden Av.*
A. B., Davidson College, 1893, and A. M., 1894. *Chemistry, Physics, and Mathematics.*

Rev. GEORGE DRENFORD. Baltimore. *Highland Park.*
University of Breslau, 1879; M. D., College of Physicians and Surgeons (Balt.), 1888. *Sanskrit and Semitic Languages.*

DE LA WARR BENJAMIN EASTER. Ashland, Va. 1217 *McCulloh St.*
A. M., Randolph-Macon College, 1891. *Greek and Romance Languages.*

JAMES MARION FARR. Union, S. C. 1212 *McCulloh St.*
A. B., Davidson College, 1894, and A. M., 1895. *English, German, and French.*

Rev. THEODORE CLINTON FOOTE. Cleveland, O. 816 *N. Eutaw St.*
A. B., Racine College, 1880, and A. M., 1883; S. T. B., General Theological Seminary (N. Y.), 1884. *Hebrew, Assyrian, and Latin.*

ALLEN WEIR FREEMAN. Richmond, Va. 1620 *Madison Av.*
S. B., Richmond College, 1899. *Chemistry, Physics, and Physical Chemistry.*

JOHN CALVIN FRENCH. Baltimore. 1505 *W. Lombard St.*
A. B., Johns Hopkins University, 1899. *English.*

Rev. FRANCIS LE JAU FROST. Charleston, S. C. 816 *N. Eutaw St.*
General Theological Seminary (N. Y.), 1897. *Spanish, French, and History.*

ROBERT GARRETT. Baltimore County. *Govanstown.*
S. B., Princeton University, 1897. *History and Politics.*

OTTO CHARLES GLASER. Baltimore. 2135 *Bolton St.*
A. B., Johns Hopkins University, 1900. *Zoology, Botany, and Physiology.*

GRAVES GRIFFITH. Payne's Depot, Ky. 220 *W. Franklin St.*
A. B., Central University, 1891. *Latin, English, and French.*

Rev. ADOLPH GUTTMACHER. Baltimore. 1833 *Linden Av.*
A. B., University of Cincinnati, 1887; Ph. D., Johns Hopkins University, 1900. *Semitic Languages.*

HUGH SIMSON HANNA. Baltimore. 1037 *Harlem Av.*
A. B., Johns Hopkins University, 1899. *History and Politics.*

PHILIP WARNER HARRY. Pylesville. 906 *McCulloh St.*
A. B., Johns Hopkins University, 1898. *Romance Languages.*

YUKIMASA HATTORI. Sagaken, Japan. 420 *W. Franklin St.*
Tokyo College of Science, 1898. *Politics.*

Rev. JAMES WOODS HAWKES. Hamadan, Persia, 1607 *John St.*
A. B., Princeton University, 1875; Union Theological Seminary (N. Y.), 1880. *Semitic Languages.*

HARRY DICKINSON HILL. Baltimore. 807 *N. Arlington Av.*
A. B., Johns Hopkins University, 1900. *Physics.*

HENRY H. HINDSHAW. Baltimore. 2316 *N. Calvert St.*
S. B., Chicago School of Science, 1891. *Geology.*

Rev. JULIUS HOFMANN. Baltimore. 1029 *W. Lanvale St.*
University of Giessen. *German, French, and Philosophy.*

PORTER HOLLIS. Rock Hill, S. C. 1204 *McCulloh St.*
A. B., Wofford College, 1896. *History, Economics, and Politics.*

ROBERT CHISOLM HORN. Reading, Pa. 212 *W. Franklin St.*
A. B., Muhlenberg College, 1900. *English, History, and French.*

GILBERT LOGAN HOUSER. Iowa City, Ia. 1024 *McCulloh St.*
S. B., State University of Iowa, 1891, and M. S., 1892. *Zoology, Physiology, and Palaeontology.*

EDWARD HOUSTON HUMPHREYS. Davidson, N. C. 1128 *McCulloh St.*
A. B., Davidson College, 1900. *English, German, and French.*

ALBERT JOHANNSEN. Fremont, Neb. 529 *N. Stricker St.*
S. B., University of Illinois, 1894, and University of Utah, 1898. *Geology, Mineralogy, and Chemistry.*

EVERETT CLARENCE JOHNSON. Selbyville, Del. 605 *N. Calhoun St.*
A. B., Delaware College, 1899. *History and Politics.*

ALFRED ALLAN KERN. Nashville, Tenn. 1217 *McCulloh St.*
A. B., Randolph-Macon College, 1898, and A. M., 1899. *English, French, and German.*

NORTON ADAMS KENT. Baltimore. 1206 *McCulloh St.*
A. B., Yale University, 1895. *Physics, Mathematics and Electricity.*

JOHN HENDRICKEN KING. Baltimore. 1529 *Bolton St.*
A. B., Johns Hopkins University, 1899. *Biology and Chemistry.*

STEPHEN HENRY KING. Baltimore. 1529 *Bolton St.*
M. D., Harvard University, 1872. *Chemistry and Physics.*

FREDERICK CREECY LAMB. Raleigh, N. C. 410 *W. Hoffman St.*
S. B., North Carolina College of Agriculture and Mechanic Arts, 1898. *Chemistry.*

SAMUEL NEGLEY LOOSE. Hagerstown. 20 *E. Preston St.*
A. B., Princeton University, 1899. *Biology, Chemistry, and Physics.*

ROBERT EDWARD LOVING. Wilmington, Va. 1210 *McCulloh St.*
A. B., Richmond College, 1896, and A. M., 1898. *Physics, Mathematics, and Astronomy.*

CHARLES EDWARD LYON. Mt. Wilson. *Mt. Wilson.*
A. B., Johns Hopkins University, 1897. *German and Latin.*

DAVID MARINE. Williston. 917 *McCulloh St.*
A. B., Western Maryland College, 1900. *Chemistry, and Biology.*

MILLARD CALEB MARSH. Groton, N. Y. *Washington, D. C.*
S. B., Cornell University, 1897. *Pathology, Bacteriology, and Normal Histology.*

OLIVER PERRY MCAULEY. Valparaiso, Ind. 334 *E. Twenty-first St.*
History, Economics, and Politics.

JOSEPH LAWRENCE MCKINSTRY. Union Bridge. 24 *W. Twenty-fifth St.*
A. B., Western Maryland College, 1899. *History, Politics, and Economics.*

Rev. WILLIAM BRUCE MCPHERSON. Middle River. *Middle River.*
A. B., Hobart College, 1892, and A. M., 1895. *Semitic Languages.*

LOUIS WARDLAW MILES. Baltimore. 514 *Cathedral St.*
A. B., Johns Hopkins University, 1894; M. D., University of Maryland, 1897. *English, German, and French.*

RAYMOND DURBIN MILLER. Baltimore. 23 *Chestnut Av., Hampden.*
A. B., Johns Hopkins University, 1898. *English and History.*

JAMES RAIDER MOOD. Summerville, S. C. 1211 *Madison Av.*
A. B., College of Charleston, 1900. *Latin, Greek, and Sanskrit.*

JOSEPH HAINES MOORE. Wilmington, O. 1128 *McCulloh St.*
A. B., Wilmington College, 1897. *Physics, Mathematics, and Astronomy.*

ALFRED JAMES MORRISON. Farmville, Va. 1217 *Madison Av.*
A. B., Hampden-Sidney College, 1895. *Romance Languages.*

WILLIAM STARR MYERS. Baltimore. *The Country School.*
A. B., University of North Carolina, 1897; Ph. D., Johns Hopkins University, 1900. *History.*

WILLIAM DALTON NEAL. Salt Lake City, Utah. 402 *St. Paul St.*
S. B., University of Utah, 1892, and M. S., 1894. *Geology.*

Rev. GABRIEL OUSSANI. Bagdad, Turkey. 330 *N. Howard St.*
College of the Propaganda (Rome), A. B., 1895, Licentiate in Philosophy, 1896, S. T. B., 1897. *Semitic Languages.*

FRANCIS LE JAU PARKER, JR. Charleston, S. C. 1106 *N. Eutaw St.*
S. C. Military Academy, 1894; S. B., University of Chicago, 1900. *Chemistry, Physical Chemistry, and Geology.*

CHARLES OSCAR PAULLIN. Washington, D. C. 2123 *N. Charles St.*
S. B., Union Christian College (O.), 1893. *History, Politics, and Roman Law.*

HAROLD PENDER. Baltimore. 1210 *McCulloh St.*
A. B., Johns Hopkins University, 1898. *Physics, Mathematics, and Electricity.*

HENRY FARNHAM PERKINS. Burlington, Vt. 706 *St. Paul St.*
A. B., University of Vermont, 1898. *Zoology, Physiology, and Physics.*

THOMAS LINDLEY PYLE. Pylesville. 516 *N. Eutaw St.*
A. B., Johns Hopkins University, 1898. *Greek, Latin, and Sanskrit.*

GEORGE LOVIC PIERCE RADCLIFFE. Lloyds. *Cambridge.*
A. B., Johns Hopkins University, 1897, and Ph. D., 1900. *History.*

GEORGE RAGLAND. Richmond, Va. 1620 *Madison Av.*
A. B., Richmond College, 1896. *Greek, Latin, and Sanskrit.*

ROBERT LEE RAMSAY. Fredericksburg, Va. 800 *Madison Av.*
A. B., Fredericksburg College, 1899. *English and Greek.*

LEE RANEY. Danville, Ky. 1024 *McCulloh St.*
A. B., Centre College, 1897. *Greek and Latin.*

ALBERT MOORE REESE. Baltimore. 1435 *Bolton St.*
A. B., Johns Hopkins University, 1892, and Ph. D., 1900. *Zoology.*

TOM MOSS RENNOLDS. Fayette, Mo. 921 *McCulloh St.*
A. B., Central College (Mo.), 1900. *Mathematics.*

EDWARD HENDERSON RICHARDSON. Farmville, Va. 1212 *McCulloh St.*
A. B., Hampden-Sidney College, 1900. *Physics and Biology.*

JAMES EDWARD ROUTH, JR. Petersburg, Va. 901 *N. Calvert St.*
A. B., Johns Hopkins University, 1900. *Physics, Mathematics, and Chemistry.*

Rev. CHARLES AARON RUBENSTEIN. Baltimore. 2036 *Linden Av.*
B. L., University of Cincinnati, 1891; A. M., Columbia University, 1898. *Romance Languages.*

JOHN JOSEPH RUTLEDGE. Alton, Ill. 9 *George St., Hampden.*
S. B., University of Illinois, 1894. *Geology.*

GEORGE BISMARCK SANDERLIN. Belcross, N. C. 1103 *Argyle Av.*
A. B., Wake Forest College, 1899, and A. M., 1900. *English and German.*

IRA OBED SCHAUB. Pinnacle, N. C. 309 *N. Greene St.*
S. B., N. C. College of Agriculture and Mechanic Arts, 1900. *Chemistry, Physics, and Geology.*

CHARLES CARROLL SCHENCK. Baltimore. 1007 *St. Paul St.*
A. B., Johns Hopkins University, 1893. *Physics, Mathematics, and Chemistry.*

JOHN PHILIP SCHNEIDER. Cooperstown, N.Y. 1228 *McCulloh St.*
A. B., Wittenberg College, 1896; A. M., Columbia University, 1898. *English, German, and History.*

STANLEY DEVRIES SHIPLEY. West Friendship. 1701 *Bolton St.*
A. B., Dickinson College, 1899. *Chemistry, Geology, and Physics.*

WARD WEAVER SIMMONS. Brooklyn, N. Y. 1218 *Madison Av.*
S. B., Brooklyn Polytechnic Institute, 1897. *Chemistry, Physics, and Geology.*

VICTOR EDGEWORTH SMITH. Baltimore. 22 *E. Mt. Vernon Place.*
A. B., Johns Hopkins University, 1898. *History and Politics.*

MILTENBERGER NEALE SMULL. Baltimore. 102 *E. Twentieth St.*
A. B., Johns Hopkins University, 1900. *English.*

GEORGE LEROY STEVENS. Cappahosic, Va. 906 *McCulloh St.*
A. B., William and Mary College, 1900. *English.*

FREDERICK WILLIAM STORRS. Morristown, N. Y. 2327 *N. Charles St.*
S. B., St. Lawrence University (N. Y.), 1900. *Chemistry and Physics.*

THOMAS JEFFERSON STUBBS, JR. Williamsburg, Va. 906 *McCulloh St.*
A. B., William and Mary College, 1899. *History, English, and Economics.*

RENÉ DE M. TAVEAU. Baltimore. 1218 *Mt. Royal Av.*
A. B., Johns Hopkins University, 1899. *Chemistry.*

DAVID HILT TENNENT. Janesville, Wis. 906 *McCulloh St.*
S. B., Olivet College, 1900. *Zoology, Botany, and Physiology.*

WILLIAM HIBBARD THATCHER. Wilmington, Del. 839 *Hamilton Terr.*
S. B., Swarthmore College, 1900. *Chemistry, Geology, and Political Economy.*

ROY ZACHARIAH THOMAS. Frederick. 1013 *McCulloh St.*
A. B., Western Maryland College, 1900. *Mathematics.*

ROBERT NEGLEY VAN HORNE. Manson, Iowa. 932 *Madison Av.*
Ph. B., Morningside College, 1899. *Mathematics.*

WILLIAM STONE WEEDON. Baltimore. 1616 *Bolton St.*
S. B., Maryland Agricultural College, 1897, and M. S., 1898. *Chemistry, Mineralogy, and Geology.*

ROBERT WICKERSHAM WHITE. Wilmington, O. 916 *McCulloh St.*
A. B., Wilmington College, 1900. *German, French, and English.*

WILLIAM FRANKLIN WILLOUGHBY. Washington, D. C. *Washington.*
A. B., Johns Hopkins University, 1888. *Economics and Politics.*

FREDERICK BENNETT WRIGHT. Oberlin, O. [*Absent.*]
S. B., Oberlin College, 1897. *Geology.*

KIKABURO YAMAGUCHI. Tokyo, Japan. 420 *W. Franklin St.*
Tokyo College of Science, 1891. *Chemistry.*

Attendants on Single Courses.

English.

Rev. Charles D. Abbetmeyer. Baltimore. 922 *W. Mulberry St.*
A. B., Northwestern University (Wis.), 1893; Ph. D., University of Minnesota, 1900.

Greek.

Rev. Walter Ludwig Moll. Baltimore. *Irvington.*
Concordia College (Ind.), 1896; Concordia Seminary (Mo.), 1899.

History and Politics.

Louis Philip Coblentz. Middletown. 725 *W. Lexington St.*
LL. B., Dickinson College, 1900; Law Department, University of Maryland.

Physics.

Harold Chase Ridgely. Annapolis. 1214 *McCulloh St.*
S. B., St. John's College, 1893.

Romance Languages.

Albert Gad Stidman. Baltimore. 610 *Mosher St.*
A. B., Johns Hopkins University, 1898.

Semitic Languages.

Frederick Andrew Cook. Catonsville. *Catonsville.*
A. B., Franklin and Marshall College, 1900.

MEDICAL STUDENTS.

CANDIDATES FOR THE DEGREE OF M. D.

Fourth Year.

ALEXANDER MONTAGUE ATHERTON. Honolulu, Hawaii. 120 *Jackson Place.*
A. B., Wesleyan University (Conn), 1897.

FREDERICK HARRY BAETJER. Winchester, Va. 615 *Park Av.*
A. B., Johns Hopkins University, 1897.

WILLIAM DWIGHT BALDWIN. Haiku, Hawaii. 707 *N. Broadway.*
A. B., Yale University, 1897.

JOHN MCWILLIAMS BERRY. Peterboro, N. Y. 1640 *E. Fayette St.*
S. B., Cornell University, 1897.

WALTER HERBERT BLAKESLEE. Coatesville, Pa. 1026 *N. Broadway.*
A. B., Amherst College, 1897; Student of Medicine, University of Pennsylvania, 1897-98.

HORACE DECHAMPS BLOOMBERGH. Easton, Pa. 1024 *N. Broadway.*
A. B., Lafayette College, 1897.

THOMAS RICHMOND BOGGS. Baltimore. 203 *W. Lanvale St.*
S. B., University of Georgia, 1896, and Graduate Student, 1896-97; Student of Medicine, University of Pennsylvania, 1897-98.

JOHN ROBERT BOSLEY. Baltimore. 1403 *Park Av.*
A. B., Western Maryland College, 1896; Graduate Student, Johns Hopkins University, 1896-97.

CHARLES HENRY BUNTING. La Crosse, Wis. 218 *W. Lanvale St.*
S. B., University of Wisconsin, 1896, and Fellow, 1896-97.

JOEL IVES BUTLER. Meriden, Conn. 120 *Jackson Place.*
Ph. B., Yale University, 1897.

HARRY WARDELL CAREY. Stamford, Conn. 122 *Jackson Place.*
A. B., Yale University, 1897.

ELEANOR SARAH CHACE. Fall River, Mass. 144 *Jackson Place.*
S. B., Wellesley College, 1894.

ROBERT THORNTON COMER. James, Ala. 1938 *McElderry St.*
A. B., University of Alabama, 1896; Graduate Student, Johns Hopkins University, 1896-97.

GUY LEARTUS CONNOR. Detroit, Mich. 1640 *E. Fayette St.*
A. B., Williams College, 1897.

RAY CONNOR. Detroit, Mich. 1640 *E. Fayette St.*
A. B., Williams College, 1897.

GEORGE SILAS DRAKE, JR. St. Louis, Mo. 1707 *Fairmount Av.*
A. B., Yale University, 1897.

ADELAIDE DUTCHER. Madison, Wis. 1910 *E. Madison St.*
S. B., University of Wisconsin, 1897.

HENRY ATWOOD FOWLER. Minneapolis, Minn. 1014 *N. Broadway.*
S. B., University of Minnesota, 1896; University of Chicago, Summer term, 1896.

FREDERICK PARKER GAY. Boston, Mass. 935 *St. Paul St.*
A. B., Harvard University, 1897.

NEIL DUNCAN GRAHAM. Falls Church, Va. 602 *N. Charles St.*
A. B., Johns Hopkins University, 1897.

GARDNER WELLS HALL. Newton, Mass. 122 *Jackson Place.*
A. B., Harvard University, 1898.

LOUIS VIRGIL HAMMAN. Baltimore. 2500 *Madison Av.*
A. B., Rock Hill College, 1896; Graduate Student, Johns Hopkins University, 1896-97.

ROLLAND FREDERICK HASTREITER. Madison, Wis. 104 *Jackson Place.*
S. B., University of Wisconsin, 1897.

JOSEPH HENRY HATHAWAY. Grinnell, Iowa. 615 *St. Paul St.*
A. B., Iowa College, 1894; A. B., Harvard University, 1896, and A. M., 1897.

JAMES MORLEY HITZROT. McKeesport, Pa. *Govanstown.*
A. B., Princeton University, 1897.

GERRY ROUNDS HOLDEN. Baltimore. 122 *Jackson Place.*
A. B., Yale University, 1897.

EDWARD HICKS HUME. Bombay, India. 128 *Jackson Place.*
A. B., Yale University, 1897.

WILLIAM BERNARD JOHNSTON. Washington, D. C. 122 *Jackson Place.*
A. B., Harvard University, 1897.

HARRY M. KAUFMAN. Washington, D. C. 1022 *N. Broadway.*
A. B., Johns Hopkins University, 1897.

THEODORE LAMSON. Boston, Mass. 118 *Jackson Place.*
Ph. B., Yale University, 1897.

DWIGHT MILTON LEWIS. New Haven, Conn. 122 *Jackson Place.*
A. B., Yale University, 1897.

WARFIELD THEOBALD LONGCOPE. Baltimore. 136 *Richmond St.*
A. B., Johns Hopkins University, 1897.

WILLIAM HARVEY MADDREN. Brooklyn, N. Y. 1610 *E. Preston St.*
S. B., Brooklyn Polytechnic Institute, 1896; Graduate Student, Johns Hopkins University, 1896-97.

ELIZABETH SUTTON MOORE. Brookville, Pa. 118 *Jackson Place.*
S. B., Wilson College (Pa.), 1895; Graduate Student, Cornell University, 1896-97.

HENRY PICKERING PARKER. Howard County. *St. Denis P. O.*
A. B., Johns Hopkins University, 1896.

MAURICE J. RUBEL. Chicago, Ill. 100 *Jackson Place.*
S. B., University of Chicago, 1897.

JOHN CLEVELAND SALTER. Carbondale, Ill. 1707 *Fairmount Av.*
A. B., Yale University, 1897.

MABEL PALMER SIMIS. Vail's Gate, N. Y. *Mt. Holly, Walbrook.*
S. B., Cornell University, 1897.

JOSIAH MORRIS SLEMONS. Salisbury. 1024 *N. Broadway.*
A. B., Johns Hopkins University, 1897.

HERBERT MELOY SMITH. Salem, Va. 1014 *N. Broadway.*
A. B., Roanoke College, 1892, and A. M., 1897; Graduate Student, Johns Hopkins University, 1894-95.

CHARLES NELSON SPRATT. Minneapolis, Minn. 821 *N. Broadway.*
S. B., University of Minnesota, 1897.

GERTRUDE STEIN. Baltimore. 220 *E. Eager St.*
A. B., Radcliffe College, Harvard University, 1898.

ALBERT LOUIS STEINFELD. Baltimore. 318 *N. Carey St.*
A. B., Johns Hopkins University, 1897.

CARLOTTA MARY SWETT. Bangor, Me. 239 *W. Biddle St.*
A.B., Wellesley College, 1896; Graduate Student, Maine State College, 1896.

HENRY LUDWIG ULRICH. Newark, N. J. 1734 *E. Fayette St.*
S. B., Rutgers College, 1897.

ALBERT JAMES UNDERHILL. Baltimore. 1005 *McCulloh St.*
A. B., Johns Hopkins University, 1897.

MARION BARTHOLOW WALKER. Cambridge, Mass. 938 *N. Calvert St.*
A. B., Radcliffe College, Harvard University, 1896.

LOUIS MARSHALL WARFIELD. Savannah, Ga. 120 *Jackson Place.*
A. B., Johns Hopkins University, 1897.

GEORGE WILLIAM WARREN. Portland, Me. 1014 *N. Broadway.*
A. B., Johns Hopkins University, 1897.

STEPHEN HURT WATTS. Lynchburg, Va. 804 *N. Broadway.*
A. M., Randolph-Macon College, 1896; Graduate Student, University of Virginia, 1896-97.

ERNEST ALDEN WELLS. Hartford, Conn. 527 *N. Wolfe St.*
A. B., Yale University, 1897.

MABEL WELLS. Monticello, Ark. 239 *W. Biddle St.*
A. B., Wellesley College, 1896; Graduate Student, University of Zürich, 1897.

JOHN MONTGOMERY WEST. Baltimore. 2433 *Maryland Av.*
A. B., Johns Hopkins University, 1896.

CHARLES KNICKERBACKER WINNE, JR. Baltimore. 1624 *Linden Av.*
A. B., Johns Hopkins University, 1897.

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Third Year.

JOHN AUER. Chicago, Ill. 107 *Jackson Place.*
S. B., University of Michigan, 1898.

JOHN BRADFORD BRIGGS, JR. Baltimore. 10 *E. Madison St.*
S. B., New York University, 1898.

BENNET BERNARD BROWNE, JR. Baltimore. 510 *Park Av.*
A. B., Johns Hopkins University, 1898.

ROBERT MARTIN BRUNS. New Orleans, La. 1401 *Park Av.*
A. B., University of Virginia, 1896; Graduate Student, Johns Hopkins University, 1897-98.

WILLIAM MORGAN CASE BRYAN. St. Louis, Mo. 1610 *E. Preston St.*
A. B., Washington University, 1897; M. S., University of Michigan, 1898.

CAMILLUS BUSH. Woodland, Cal. 106 *W. Saratoga St.*
S. B., University of California, 1898.

JOHN WOOLMAN CHURCHMAN. Burlington, N. J. 801 *N. Broadway.*
A. B., Princeton University, 1898.

THOMAS WOOD CLARKE. Utica, N. Y. 801 *N. Broadway.*
A. B., Harvard University, 1899.

HENRY WIREMAN COOK. Baltimore. *The St. Paul.*
A. B., Johns Hopkins University, 1898.

JACOB JONES COONS. Milledgeville, O. 1016 *N. Broadway.*
S. B., Ohio Wesleyan University, 1898.

GUSTAVUS CHARLES DOHME. Baltimore. 1808 *Guilford Av.*
A. B., Johns Hopkins University, 1898.

DAVID HOUGH DOLLEY. Hillsboro, Va. 403 *N. Broadway.*
A. B., Randolph-Macon College, 1897, and A. M., 1898.

RALPH DUFFY. Baltimore. 209 *E. Preston St.*
A. B., Johns Hopkins University, 1898.

JOHN DUNLOP. Washington, D. C. 626 *N. Broadway.*
S. B., Princeton University, 1898.

DANA LEE EDDY. Leavenworth, Kan. 1412 *E. Chase St.*
A. B., Yale University, 1898.

WILLIAM GAGE ERVING. Hartford, Conn. 1727 *Fairmount Av.*
A. B., Yale University, 1898.

NEWELL SIMMONS FERRY. New Haven, Conn. 718 *N. Broadway.*
Ph. B., Yale University, 1898.

NELLIS BARNES FOSTER. Utica, N. Y. 810 *N. Broadway.*
S. B., Amherst College, 1898.

WILLIAM WILLOUGHBY FRANCIS. Toronto, Ont. 1 *W. Franklin St.*
A. B., Johns Hopkins University, 1898.

MAURICE ALBERT FRANKENTHAL. St. Louis, Mo. 108 *Jackson Place.*
A. B., Washington University, 1898.

W. HARRY GLENNY. Buffalo, N. Y. 1013 *Cathedral St.*
Ph. B., Yale University, 1894, and Graduate Student, 1897-98.

CLARENCE FOSTER HARDY. Waukesha, Wis. 1020 *N. Broadway.*
B. L., University of Wisconsin, 1891.

MORRISON LE ROY HAVILAND. Glens Falls, N. Y. 805 *N. Broadway.*
Ph. B., Union College, 1898.

MABEL STEVENS HAYNES. Boston, Mass. 611 *St. Paul St.*
A. B., Bryn Mawr College, 1898.

LEONARD KEENE HIRSHBERG. Baltimore. 2333 *Madison Av.*
A. B., Johns Hopkins University, 1898.

CARL HERMAN HORST. Butte City, Mont. 810 *N. Broadway.*
A. B., Leland Stanford Jr. University, 1898.

SOLOMON HYMAN. San Francisco, Cal. 126 *Jackson Place.*
S. B., University of California, 1898.

WILLIAM FREDERICK JELKE. Cincinnati, O. 1703 *N. Broadway.*
Ph. B., Yale University, 1898.

THOMAS MONROE JONES. Anderson, Ind. 422 *N. Broadway.*
A. B., Indiana University, 1898.

ALFRED KARSTED. Butte City, Mont. 1606 *McElderry St.*
A. B., Leland Stanford Jr. University, 1898.

ARTHUR HERBERT KIMBALL. Washington, D. C. 1022 *N. Broadway.*
S. B., Amherst College, 1897.

LOUIS CHARLES LEHR. Baltimore. 7 *E. Chase St.*
A. B., Johns Hopkins University, 1898.

EDWARD MCCRADY L'ENGLE. Baltimore. 214 *W. Monument St.*
A. B., St. John's College, 1897; Graduate Student, Johns Hopkins University, 1897-98.

GEORGE VICTOR LITCHFIELD, JR. Abingdon, Va. 403 *N. Broadway.*
A. M., Randolph-Macon College, 1897.

EMMA LOOTZ. Boston, Mass. 220 *E. Eager St.*
A. B., Smith College, 1897.

SEYMOUR DE WITT LUDLUM. Paterson, N. J. 909 *N. Broadway.*
S. B., Rutgers College, 1897.

GEORGE MALCOLM MACGREGOR. Mondovi, Wis. 909 *N. Broadway.*
S. B., University of Wisconsin, 1894.

SAMUEL ANDREW MARSHALL. Cromwell, Conn. 1727 *Fairmount Av.*
A. B., Yale University, 1898.

JOHN SCOTT MCFARLAND. Buffalo, N. Y. 114 *Jackson Place.*
Ph. B., Yale University, 1898.

EDMUND WEBSTER MEISENHELDER. York, Pa. 505 *N. Wolfe St.*
A. B., Pennsylvania College, 1898; Graduate Student, Harvard Summer School, 1898.

JOHN ELMER MEISENHELDER. Hanover, Pa. 505 *N. Wolfe St.*
S. B., Pennsylvania College, 1897; Graduate Student, Johns Hopkins University, 1897-98.

HENRY WILLIAM OCHSNER. Waumandee, Wis. 801 *N. Broadway.*
S. B., University of Wisconsin, 1898.

EDWARD HIRAM REEDE. Baltimore. 1248 *N. Broadway.*
A. B., Cornell University, 1898.

EDWIN NICHOLAS RIGGINS. East Orange, N. J. 1640 *E. Fayette St.*
A. B., Williams College, 1897.

CAREY PEGRAM ROGERS. Raleigh, N. C. 1610 *E. Preston St.*
A. B., Wake Forest College, 1897; Graduate Student, Johns Hopkins University, 1897-98.

STEPHEN RUSHMORE. Plainfield, N. J. 103 *Jackson Place.*
A. B., Amherst College, 1897.

GEORGE BARR SCHOLL. Baltimore. 1005 *W. Lanvale St.*
A. B., Johns Hopkins University, 1898.

MELVILLE SILVERBERG. San Francisco, Cal. 126 *Jackson Place.*
A. B., University of California, 1897.

JOHN NATHAN SIMPSON. Point Pleasant, W. Va. 700 *N. Broadway.*
A. B., University of Nashville, 1898.

HARRY MERRIMAN STEELE. Waterbury, Conn. 1613 *John St.*
Ph. B., Yale University, 1894.

ALICE WELD TALLANT. Boston, Mass. 611 *St. Paul St.*
A. B., Smith College, 1897; Graduate Student, Massachusetts Institute of Technology, 1897-98.

CONDIT BREWER VAN ARSDALL. Harrodsburg, Ky. 1717 *Fairmount Av.*
A. B., Kentucky Wesleyan College, 1894, and A. M., 1898; A. B., University of Michigan, 1898.

JOHN VAN DENBURGH. San Francisco, Cal. 813 *N. Broadway.*
A. B., Leland Stanford Jr. University, 1894, A. M., 1895, and Ph. D., 1897.

OTIS BUCKMINSTER WIGHT. Stanford University, Cal. 813 *N. Broadway.*
A. B., Leland Stanford Jr. University, 1898.

CLARA LOUISE WILLIAMS. San Francisco, Cal. 129 *Jackson Place.*
S. B., University of California, 1897, and M. S., 1898.

DUDLEY WILLIAMS. Baltimore. 1128 *Cathedral St.*
A. B., Johns Hopkins University, 1897, and Graduate Student, 1897-98.

CHARLES BENJAMIN WRIGHT. Grand Forks, N. Dak. 908 *N. Broadway.*
A. B., University of North Dakota, 1898.

Second Year.

VICTOR HUGO BASSETT. Aledo, Ill. 1910 *E. Madison St.*
A. B., Knox College, 1896; Graduate Student, Universities of Wisconsin and Michigan, 1897-98.

RUTH BENNETT. Chicago, Ill. 222 *E. Twenty-third St.*
A. B., University of Illinois, 1899, and Graduate Student, Summer of 1899.

LEWIS CLYDE BIXLER. Easton, Pa. 802 *N. Broadway.*
A. B., Lafayette College, 1899.

ELISABETH HEDGES BLAUVELT. Franklin Park, N. J. 925 *McCulloh St.*
A. B., Bryn Mawr College, 1896.

WALTER VERNON BREM, JR. Morganton, N. C. 700 *N. Broadway.*
S. B., University of North Carolina, 1896, and Medical Department, 1898-1900.

CLINTON ETHELBERT BRUSH, JR. Baltimore. 10 *E. Madison St.*
S. B., New York University, 1899.

JOSEPH ALBERT CHATARD. Baltimore. 516 *Park Av.*
A. B., Loyola College, 1898; Graduate Student, Johns Hopkins University, 1898-99.

GEORGE EDWARD CHINN, JR. Fayette, Mo. 911 *N. Broadway.*
S. B., Central College (Mo.), 1899.

ALFRED HULL CLARK. Buffalo, N. Y. 103 *Jackson Place.*
A. B., Cornell University, 1899.

WILLIAM BURGESS CORNELL. Chicago, Ill. 802 *N. Broadway.*
A. B., University of Chicago, 1899.

EMMA GRACE DEWEY. Jacksonville, Ill. 129 *E. North Av.*
S. B., Wellesley College, 1885, and A. M., 1894; Graduate Student, University of Chicago, 1898-99.

HARLAN DUDLEY. Monroeville, O. 1015 *N. Broadway.*
Ph. B., Oberlin College, 1897; Graduate Student, Johns Hopkins University, 1898.

RALPH TORREY EDWARDS. Galesburg, Ill. 1821 *Jefferson St.*
A. B., Knox College, 1897, and A. M., 1899.

ROADES FAYERWEATHER. Chicago, Ill. 1727 *Fairmount Av.*
A. B., Harvard University, 1899.

JOHN SOMERVILLE FISCHER. Baltimore. 13 *W. Preston St.*
A. B., Johns Hopkins University, 1898, and Graduate Student, 1898-99.

FREDERICK JULIUS GAENSLEN. Milwaukee, Wis. 104 *Jackson Place.*
S. B., University of Wisconsin, 1899.

LEWIS MCFARLAND GAINES. Atlanta, Ga. 1727 *Fairmount Av.*
A. B. and S. B., Hampden-Sidney College, 1896; Graduate Student, University of Virginia, 1898-99.

JOHN TIMOTHY GERAGHTY. St. Paul, Minn. 1248 *N. Broadway.*
A. B., St. Thomas College, 1895; Ph. B., St. Paul Seminary, 1897; Graduate Student, Johns Hopkins University, 1897-98.

FRANCIS COLQUHOUN GOLDSBOROUGH. Baltimore. 924 *St. Paul St.*
S. B., Princeton University, 1899.

LOUIS WARDLAW HASKELL, JR. Savannah, Ga. 706 *N. Broadway.*
A. B., Johns Hopkins University, 1899.

ARTHUR DOUGLASS HIRSCHFELDER. San Francisco, Cal. 107 *Jackson Pl.*
S. B., University of California, 1897; Student in Paris and Heidelberg, 1898-99.

ROSS HOPKINS. Holton, Kan. 908 *N. Broadway.*
A. B. and S. B., Campbell University, 1897; A. B., Kansas State University, 1899; Graduate Student, University of Chicago, 1899.

HENRY TALBOT HUTCHINS. Worcester, Mass. 144 *Jackson Place.*
A. B., Amherst College, 1899.

CLEMENT LEVI JONES. Jamestown, O. 1016 *N. Broadway.*
S. B., Washington and Jefferson College, 1899.

ALBERT KEIDEL. Catonsville. *Catonsville.*
A. B., Johns Hopkins University, 1900.

MAURICE LAZENBY. Baltimore. 800 *W. North Av.*
A. B., Johns Hopkins University, 1900.

ARTHUR SOLOMON LOEVENHART. Lexington, Ky. 521 *N. Wolfe St.*
S. B., Kentucky State College, 1898, and M. S., 1899.

HENRY D. LONG. Greensburg, Pa. 908 *N. Broadway.*
A. B., Washington and Jefferson College, 1894, and A. M., 1897; Cornell University Summer School, 1897.

EDWARD JANNEY SIDWELL LUPTON. Martinsburg, W. Va.
S. B., Columbian University, 1899. 309 *W. Hoffman St.*

LEO AUGUSTINE LYNCH. Olyphant, Pa. 806 *N. Broadway.*
A. B., Yale University, 1899.

WILLIAM SANDERS MANNING. Washington, D. C. 1022 *N. Broadway.*
S. B., Columbian University, 1899.

WATSON MARSHALL. Pittsburg, Pa. 144 *Jackson Place.*
A. B., Princeton University, 1899.

ROBERT TALBOTT MILLER, JR. Covington, Ky. 144 *Jackson Place.*
A. B., Amherst College, 1899.

MARY ELIZABETH MORSE. Baltimore. 1406 *Mt. Royal Av.*
A. B., Woman's College of Baltimore, 1899.

WILLIS BEAN MOULTON. Portland, Me. 1020 *N. Broadway.*
A. B., Bowdoin College, 1899.

HARRY BENJAMIN NEAGLE. Lubec, Me. 1020 *N. Broadway.*
A. B., Bowdoin College, 1899.

SELDEN IRWIN RAINFORTH. Cincinnati, O. 907 *N. Calvert St.*
S. B., University of Cincinnati, 1899, and A. M., 1900.

THEODORE FOSTER RIGGS. Oahe, S. Dak. 720 *N. Broadway.*
A. B., Beloit College, 1898.

BENJAMIN FRANKLIN RILEY, JR. Athens, Ga. 1027 *N. Broadway.*
S. B., University of Georgia, 1898.

GEORGE CANBY ROBINSON. Baltimore. *Mt. Washington.*
A. B., Johns Hopkins University, 1899.

MARVIN PIERCE RUCKER. Manchester, Va. 802 *N. Broadway.*
A. M., Randolph-Macon College, 1899; Virginia Medical College, 1899–1900.

FERDINAND SCHMITTER. Albany, N. Y. 1022 *N. Broadway.*
A. B., Union College, 1899.

OSCAR THEODORE SCHULTZ. Mt. Vernon, Ind. 521 *N. Wolfe St.*
A. B., Indiana University, 1897.

WINFORD HENRY SMITH. Westbrook, Me. 804 *N. Broadway.*
A. B., Bowdoin College, 1899.

ALEXANDER RAYMOND STEVENS. Baltimore. 1604 *Bolton St.*
A. B., Johns Hopkins University, 1896.

WILLIAM LAWTON THOMPSON. Portland, Me. 13 *W. Franklin St.*
A. B., Bowdoin College, 1899.

CATHERINE HUTCHINSON TRAVIS. Hampton, Canada. 716 *N. Carey St.*
A. B., McGill University, 1895; Graduate Student, Harvard Summer School, 1899.

FRANK HOSFORD WATSON. Milwaukee, Wis. 804 *N. Broadway.*
S. B., University of Wisconsin, 1899.

CHARLES WHITTIER YOUNG. Chicago, Ill. 1821 *Jefferson St.*
S. B., University of Illinois, 1897.

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First Year.

JAY HARVEY BACON. Tiskilwa, Ill. 1821 *Jefferson St.*
S. B., Knox College, 1900.

THEODORE BAKER. Bellevernon, Pa. 510 *N. Broadway.*
A. B., Princeton University, 1900.

ROBERT BENNETT BEAN. Gala, Va. 510 *N. Broadway.*
S. B., Virginia Polytechnic Institute, 1900.

JOHN MCFARLAND BERGLAND. Baltimore. 1116 *N. Charles St.*
S. B., Princeton University, 1900.

MAURICE BUFORD BONTA. Harrodsburg, Ky. 1717 *Fairmount Av.*
A. B., Kentucky Wesleyan College, 1894; S. B., University of Michigan, 1897.

LORENZO STARR BROWN, JR. Washington, D. C. 1022 *N. Broadway.*
B. L., Furman University, 1900; Graduate Student, Harvard Summer School, 1900.

JULIUS ALEXANDER CALDWELL, JR. Salisbury, N. C. 700 *N. Broadway.*
S. B., University of North Carolina, 1899, Medical Department, 1899-1900, and Summer School, 1900.

JOHN ROBERT CARR, Durham, N. C. 700 *N. Broadway.*
A. B., University of North Carolina, 1899, Medical Department, 1899-1900, and Summer School, 1900.

DEWITT BELLINGER CASLER. Little Falls, N. Y. 128 *Jackson Place.*
A. B., Yale University, 1900.

JOSEPH GOLDER DILLON. Sterling, Ill. 132 *Jackson Place.*
S. B., University of Wisconsin, 1900.

ANFIN EGDAHL. Menomonie, Wis. 118 *Jackson Place.*
S. B., University of Wisconsin, 1900.

HERBERT ZIEGLER GIFFIN. Atlantic City, N. J. 118 *Jackson Place.*
S. B., Princeton University, 1900.

HARRY SELIGER GREENBAUM. Baltimore. 1614 *Eutaw Place.*
A. B., Johns Hopkins University, 1899; Student, University of Berlin, 1899-1900.

ALTON AMAZIAH HAYDEN. Presque Isle, Me. 103 *Jackson Place.*
A. B., Bowdoin College, 1899.

ELIZABETH SINGLEY HELLWEG. Baltimore. 210 *S. Washington St.*
A. B., Woman's College of Baltimore, 1899.

JOSEPHINE HEMENWAY. Glasgow, Mo. 529 *N. Wolfe St.*
A. B., Pritchett College, 1898; Bryn Mawr College, 1899-1900.

EDITH HOUGHTON. Corning, N. Y. *The St. Paul.*
A. B., Bryn Mawr College, 1900.

WILLIAM RAPHAEL KELLOGG. Baltimore. 510 *N. Broadway.*
A. B., Adelbert College, 1898.

LU KNOWLES. Missoula, Mont. 1709 *Fairmount Av.*
S. B., University of Montana, 1900.

KENELM JULIUS LEE. Renville, Minn. 132 *Jackson Place.*
S. B., University of Wisconsin, 1900.

JOHN MARION LOVE. Petersburg, Va. 510 *N. Broadway.*
A. B. and B. L., Hampden-Sidney College, 1899; Graduate Student, Johns Hopkins University, 1899–1900.

HERMAN WESTON MARSHALL. Brockton, Mass. 1006 *N. Broadway.*
S. B., Massachusetts Institute of Technology, 1897.

WILLIAM CARPENTER MCCARTY. Louisville, Ky. 2121 *E. Baltimore St.*
S. B., Kentucky State College, 1900.

ERNEST CLARE MCGOULDRICK. Machias, Me. 128 *Jackson Place.*
A. B., Yale University, 1900.

FRANK HOLDEN MEADOWS. East Troy, Wis. 720 *N. Broadway.*
S. B., Beloit College, 1900.

LORENZO SEYMOUR MORGAN. Galva, Ill. 1821 *Jefferson St.*
S. B., Knox College, 1900.

JAMES FRANCIS MORRISON. Cambridge, Mass. 1734 *E. Fayette St.*
A. B., Harvard University, 1900.

NORMAN OSCAR NELSON. Madison, Wis. 104 *Jackson Place.*
S. B., University of Wisconsin, 1900.

HENRY FRANKLIN PILLOW. Butler, Pa. 1717 *Fairmount Av.*
A. B., Westminster College (Pa.), 1900.

JAMES HENRY RANDOLPH. Tallahassee, Fla. 403 *N. Broadway.*
A. B., Florida Classical and Literary College, 1900.

JEWETT VILLEROY REED. Jeffersonville, Ind. 139 *Jackson Place.*
S. B., Kentucky State College, 1900.

CHARLES MALLORY REMSEN. Baltimore. 12 *E. Biddle St.*
A. B., Johns Hopkins University, 1899, and Graduate Student, 1899–1900.

WILLIAM GRAY RICKER. Ryegate, Vt. 128 *Jackson Place.*
A. B., Yale University, 1900.

ESTHER ROSENCRANTZ. San Francisco, Cal. 1809 *Park Av.*
A. B., Leland Stanford, Jr. University, 1899; Graduate Student, Barnard College, Columbia University, 1899-1900.

FRANK PEYTON ROUS. Baltimore. 252 *W. Hoffman St.*
A. B., Johns Hopkins University, 1900.

ERNEST SACHS. New York, N. Y. 128 *Jackson Place.*
A. B., Harvard University, 1900.

ORVILLE HICKOK SCHELL. New Haven, Conn. 707 *N. Broadway.*
A. B., Yale University, 1900.

HARRY RUSSEL STONE. Middletown, Conn. 120 *Jackson Place.*
Ph. B., Wesleyan University, 1899.

HENRY JOHN STORRS. South Boston, Mass. 1015 *N. Broadway.*
A. B., Amherst College, 1899.

GEORGE LANE TANEYHILL, JR. Baltimore. 1103 *Madison Av.*
A. B., Johns Hopkins University, 1900.

BENJAMIN TAYLOR TERRY. Chicago, Ill. 802 *N. Broadway.*
A. B., Vanderbilt University, 1896, and A. M., 1900; University of Chicago, Summer Quarter, 1900.

GEORGE THOMAS TYLER, JR. Falls Church, Va. 802 *N. Broadway.*
A. B., Randolph-Macon College, 1896, and A. M., 1897; Summer School, Columbia University, 1899.

ROGER THROOP VAUGHAN. Baltimore. 1022 *N. Broadway.*
Ph. B., University of Chicago, 1899.

WILLIAM JEROME VOGELER. Baltimore. 718 *N. Charles St.*
A. B., Yale University, 1900.

LOUIS SCHNEIDER WEAVER. Newry, Pa. 519 *N. Wolfe St.*
A. B., Pennsylvania College, 1899; A. B., Yale University, 1900.

JOHN SCOTT WILLOCK. Allegheny, Pa. 118 *Jackson Place.*
S. B., Princeton University, 1900.

WALTER SCOTT WILSON. Savannah, Ga. 403 *N. Broadway.*
A. B., North Georgia Agricultural College, 1890; A. M., University of Georgia, 1894; Graduate Student, Johns Hopkins University, 1893-94, and University of Chicago, 1896-97.

WINFRED WILSON. Weatherford, Tex. 403 *N. Broadway.*
A. B., Weatherford College, 1900.

HELEN WOOLVERTON. Hamilton, Ont. 1709 *Fairmount Av.*
A. B., Toronto University, 1899.

Physicians attending Special Courses, 1900–1901.

MICHAEL LESTER CASEY. Rochester, N. Y. 1709 *Fairmount Av.*
A. B., University of Rochester, 1895; M. D., University of Pennsylvania, 1898. *Pathology and Bacteriology.*

WALTER G. CHACE. Brookline, Mass.
M. D., Harvard University, 1900. *Medicine and Gynecology.*

JULIAN F. CHISHOLM. Savannah, Ga. 13 *E. Franklin St.*
M. D., University of Maryland, 1900. *Pathology and Bacteriology.*

CLARIBEL CONE. Baltimore. 1616 *Eutaw Place.*
M. D., Woman's Medical College (Balt.), 1890. *Special Research.*

ARTHUR J. EDWARDS. Winston, N. C.
M. D., University of Maryland, 1899. *Medicine.*

HARRY M. FINK. Allegheny, Pa. *Hotel Broadway.*
M. D., University of Pennsylvania, 1900. *Surgery and Bacteriology.*

HENRY F. GAU. Cincinnati, O. 510 *N. Broadway.*
M. D., Ohio Medical College, 1894. *Gynecological Pathology.*

MARGARET HAMILTON. Fort Wayne, Ind.
A. B., Bryn Mawr College, 1897. *Anatomy.*

ANNA HOFFMAN. Baltimore. 215 *N. Carey St.*
A. B., Woman's College of Baltimore, 1899. *Histology.*

S. IWASAKI. Tokio, Japan. *Hotel Broadway.*
M. D., Naval Medical College (Tokio), 1891. *Medicine and Pathology.*

HELENE KUHLMANN. Buffalo, N. Y. 232 *N. Broadway.*
M. D., The Woman's Medical College of the New York Infirmary, 1890. *Medicine and Gynecology.*

FREDERICK A. LARKIN. Chicago, Ill.
M. D., Rush Medical College, 1892. *Medicine.*

RUTH WEBSTER LATHROP. Philadelphia, Pa. *The Altamont.*
M. D., Woman's Medical College (Phila.), 1891. *Anatomy.*

PATRICK H. MCGOVERN. Milwaukee, Wis. *The Hopkins.*
M. D., University of Pennsylvania, 1894. *Anatomy, Medicine, and Pathology.*

CHARLES H. MELDRIN. Brunswick, Ga. 600 *N. Broadway.*
M. D., University of Georgia, 1893. *Medicine and Surgery.*

CLARA MELTZER New York, N. Y. 144 *Jackson Place.*
M. D., Johns Hopkins University, 1900. *Pathology.*

IRVING MILLER. Baltimore. 2732 *St. Paul St.*
M. D., University of Maryland, 1877. *Anatomy.*

ROBERT S. PAGE. Baltimore. 1206 *Linden Av.*
M. D., University of Maryland, 1893. *Histology.*

WILLIAM G. RATCLIFFE. St. Catharine's, Ont. *The Country School.*
M. B., University of Toronto, 1899. *Special Research.*

FRANCIS A. RICHARDSON. Cambridge, Mass.
A. B. and S. B., Harvard University, 1896, and M. D., 1900. *Clinical Microscopy.*

CLEMENT RITTER. Selma, Ala. 606 *N. Calvert St.*
M. D., Jefferson Medical College, 1890. *Gynecology.*

MOSES SAVAGE. Baltimore. 6 *S. Exeter St.*
M. D., College of Physicians and Surgeons (Balt.), 1895. *Medicine.*

CHARLES R. SCOTT. Belvidere, Ill. *Hotel Rennert.*
M. D., Northwestern University Medical School, 1900. *Medicine.*

MARY SHERWOOD. Baltimore. *The Arundel*
M. D., University of Zurich, 1890. *Clinical Microscopy.*

CLARENCE A. SMITH. Washington, D. C. 700 *N. Broadway.*
M. D., College of Physicians and Surgeons (N. Y.), 1887. *Gynecology and Gynecological Pathology.*

HENRY STANBURY. Pomeroy, O. 1042 *N. Eden St.*
M. D., Miami Medical College, 1899. *Medicine and Clinical Microscopy.*

RUSSELL J. C. STRONG. Beloit, Wis. 1528 *N. Broadway.*
M. D., Wisconsin College of Physicians and Surgeons, 1900. *Histology and Clinical Microscopy.*

OLANDER E. WALD. Chicago, Ill.
M. D., College of Physicians and Surgeons (Chicago), 1898. *Medicine, Anatomy, Pathology, and Bacteriology.*

EDNA WEIL. Boston, Mass. 600 *N. Broadway.*
M. D., Tuft's Medical College, 1900. *Medicine and Clinical Microscopy.*

WALTER F. WICKES. Baltimore. 920 *St. Paul St.*
M. D., University of Maryland, 1900. *Pathology and Bacteriology.*

PIERRE WILSON. Denison, Texas.
M. D., Missouri Medical College (St. Louis), 1884. *Gynecological Pathology.*

GEORGE F. ZINNINGER. Canton, O.
M. D., Starling Medical College (Ohio), 1892. *Pathol., Bacteriol., and Medicine.*

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PHYSICIANS ATTENDING SPECIAL COURSES, MAY AND JUNE, 1900.

[Not enrolled in the Register for 1899–1900.]

JESSE I. ARMSTRONG. Blount Springs, Ala.
M. D., Chattanooga Medical College, 1893. *Histology, Medicine, Pathology, Surgery, and Clinical Microscopy.*

HARVEY G. BECK. Baltimore.
M. D., College of Physicians and Surgeons (Balt.), 1896. *Bacteriology.*

FRANK K. BOLAND. Atlanta, Ga.
M. D., Atlanta College of Physicians and Surgeons, 1900. *Medicine, Pathology, and Clinical Microscopy.*

ALICE B. BROWN. Chicago, Ill.
M. D., Hahnemann Medical College (Chicago), 1896. *Gynecology.*

HOWARD CARTER. St. Louis, Mo.
M. D., Beaumont Hospital Medical College (St. Louis), 1893. *Medicine, Physical Diagnosis, Pathology, and Clinical Microscopy.*

MICHAEL L. CASEY. Rochester, N. Y.
M. D., University of Pennsylvania, 1898. *Histology, Pathology, and Clinical Microscopy.*

ALLEN CASTLE. Eutora, Miss.
M. D., Woman's Medical College (Balt.), 1900. *Medicine.*

JOSEPH E. CLARK. New York, N. Y.
M. D., Harvard University, 1883. *Histology, Pathology, and Bacteriology.*

CHARLES E. COOPER. San Francisco, Cal.
M. D., Cooper Medical College, 1869. *Medicine, Pathology, Gynecology, and Bacteriology.*

WILLIAM E. COSTELLO. Zwingle, Iowa.
M. D., Iowa State University, 1894. *Clinical Microscopy.*

ARTHUR W. DUNNING. St. Paul, Minn.
M. D., College of Physicians and Surgeons (Chicago), 1885. *Medicine.*

I. SINGLETON GARTHWAITE. Webster, Pa.
M. D., University of Maryland, 1896. *Medicine.*

JOHN M. GOLDSMITH. Atlanta, Ga.
M.D., Atlanta College of Physicians and Surgeons, 1900. *Clinical Microscopy and Pathology.*

JOHN SIDNEY GRAY. Winnipeg, Canada.
M. D., McGill University, 1876. *Gynecology.*

WILLIAM J. GREIG. Toronto, Canada.
M. D., University of Toronto, 1885. *Medicine, Clinical Microscopy, and Pathology.*

E. RUSSELL HANLON. San Francisco, Cal.
M. D., Cooper Medical College, 1899. *Histology, Pathology, Clinical Microscopy, and Medicine.*

JAMES M. B. HARD. New York, N. Y.
Columbia University, 1890-91; Pathologist to City of Orizaba, Mexico. *Pathology and Bacteriology.*

DELBERT B. HARTINGER. Middleport, O.
M. D., College of Physicians and Surgeons (Balt.), 1894. *Medicine.*

GEORGE D. HEAD. Minneapolis, Minn.
M. D., University of Minnesota, 1895. *Medicine.*

JULIUS HESS. Chicago, Ill.
M. D., Northwestern University, 1899. *Medicine, Pathology, and Bacteriology.*

THOMAS A. HICKEY. San Francisco, Cal.
M. D., University of California, 1887. *Pathology and Clinical Microscopy.*

HENRY J. HINKEL. Baltimore.
M. D., College of Physicians and Surgeons (Balt.), 1900. *Medicine.*

J. CHARLES HOLDSWORTH. Baltimore.
M. D., College of Physicians and Surgeons (Balt.), 1896. *Gynecology.*

GEORGE N. JACK. Depew, N. Y.
M. D., University of Buffalo, 1895. *Gynecology.*

HARVEY P. JACK. Canisteo, N. Y.
M. D., College of Physicians and Surgeons (Balt.), 1891. *Gynecology and Clinical Microscopy.*

COLLINS H. JOHNSTON. Grand Rapids, Mich.
M. D., University of Michigan, 1883. *Medicine, Physical Diagnosis, Clinical Microscopy, and Dermatology.*

EDWARD G. JONES. Atlanta, Ga.
M.D., Atlanta College of Physicians and Surgeons, 1900. *Medicine, Pathology, and Clinical Microscopy.*

MAY FARINHOLT JONES. Baltimore.
M. D., Woman's Medical College (Balt.), 1897. *Medicine.*

HARRY E. KERCH. Dundee, Ill.
M. D., Chicago Homeopathic Medical College, 1892. *Medicine.*

REBECCA P. LAUGHLIN. Greencastle, Pa.
M. D., Woman's Medical College (Phila.), 1897. *Medicine.*

J. PERRY LEWIS. San Diego, Cal.
M. D., Hahnemann Medical College, 1895. *Medicine, Eye and Ear.*

DAVID N. LOOSE. Maquoketa, Ia.
M. D., University of Pennsylvania, 1877. *Clinical Microscopy.*

HARRY L. LYNAH. Charleston, S. C.
M. D., South Carolina Medical College, 1900. *Bacteriology.*

ARTHUR M. MACNAMEE. Washington, D. C.
M. D., Georgetown University (Wash.), 1898. *Medicine and Clinical Microscopy.*

ELIZABETH L. MARTIN. Pittsburg, Pa.
Western Pennsylvania Medical College (Pittsburg). *Pathology.*

CHARLES MARVEL. Richmond, Ind.
M. D., Jefferson Medical College, 1891. *Medicine, Gynecology, and Clinical Microscopy.*

EDWARD E. MAXEY. Caldwell, Idaho.
M. D., College of Physicians and Surgeons (Chicago), 1891. *Medicine, Surgery, Pathology, and Clinical Microscopy.*

GEORGE K. MCDOWELL. Staples, Minn.
M. D., Trinity University (Canada), 1892. *Pathology and Clinical Microscopy.*

J. TRACY MELVIN. Saguache, Colo.
M. D., Gross Medical College (Denver), 1881. *Medicine and Clinical Microscopy.*

ANDREW D. MILLER. Sullivan, Ill.
M. D., Missouri Medical College, 1891. *Surgery, Gynecology, and Eye and Ear.*

IRVING MILLER. Baltimore.
M. D., University of Maryland, 1877. *Surgical Pathology.*

JOHN H. MILLER. Pana, Ill.
M. D., Missouri Medical College, 1880. *Bacteriology, Surgery, and Gynecology.*

JOSEPH F. MILLER. Pana, Ill.
M. D., Missouri Medical College, 1889. *Bacteriology, Surgery, and Gynecology.*

WILLIAM MCN. MILLER. Reno, Nev.
D. S., Ohio State University, 1885; M. D., Cooper Medical College, 1895. *Physical Diagnosis and Clinical Microscopy.*

CHARLES P. MONRO. De Ruyter, N. Y.
M. D., College of Physicians and Surgeons (Baltimore), 1892. *Medicine.*

ALFONSO J. MOONEY. Statesboro, Ga.
M. D., Atlanta Medical College, 1898. *Medicine and Surgery.*

JOHN T. MOORE. Galveston, Texas.
M. D., University of Texas, 1896. *Medicine, Clinical Microscopy, Nose and Throat.*

JOHN J. MORGAN. Duran, Wis.
M. D., University of Buffalo, 1873. *Histology, Medicine, Physical Diagnosis, and Clinical Microscopy.*

GUSTAVUS A. NEWMAN. New London, Minn.
M. D., University of Minnesota, 1895. *Medicine and Clinical Microscopy.*

ELBERT A. PALMER. Saratoga Springs, N. Y.
M. D., Albany Medical College, 1896. *Medicine and Gynecology.*

O. PARKER PENNING. Baltimore.
M. D., University of Maryland, 1897. *Pathology.*

CHARLES R. PITTINGER. Easton, Pa.
M. D., University of Pennsylvania, 1899. *Medicine.*

WILLARD E. QUILLIAN. Madison, Ga.
M. D., Atlanta College of Physicians and Surgeons, 1900. *Medicine, Clinical Microscopy, and Pathology.*

VITA REDINGTON. Oakland, Cal.
M. D., University of California, 1899. *Medicine and Surgery.*

FRANK DEW. REESE. Cortland, N. Y.
M. D., Long Island College Hospital (Brooklyn), 1885. *Gynecology.*

WILLIAM ROUSH. Spencerville, O.
M. D., Cincinnati College of Medicine and Surgery, 1891. *Gynecology.*

MOSES SAVAGE. Baltimore.
M. D., College of Physicians and Surgeons (Balt.), 1896. *Clinical Microscopy.*

L. ELEANOR SCULL. Hammond, Ind.
M. D., Woman's Medical College of Penna. (Phila.), 1898. *Medicine.*

DEAN T. SMITH. Jackson, Mich.
M. D., Chicago Homeopathic Medical College, 1889. *Gynecology.*

WILLIAM E. STEDMAN. Sullivan, Ill.
M. D., Kentucky School of Medicine, 1880. *Surgery, Gynecology, and Eye and Ear.*

RUSSELL J. C. STRONG. Beloit, Wis.
M. D., Wisconsin College of Physicians and Surgeons, 1900. *Medicine and Bacteriology.*

JOHN A. SUTCLIFFE. Minneapolis, Minn.
M. D., Bellevue Hospital Medical College, 1872. *Gynecology.*

MARIE E. THALWITZER. Baltimore.
M. D., Woman's Medical College (Balt.), 1895. *Medicine.*

JOHN W. THOMASON. Huntsville, Texas.
M. D., University of Virginia, 1885. *Medicine, Surgery, and Eye and Ear.*

WILLIAM M. THOMPSON. Chicago, Ill.
M. D., Hahnemann Medical College (Chicago), 1892. *Gynecology, Anatomy, and Pathology.*

FRANK S. TWITTY. Columbia, Ala.
M. D., College of Physicians and Surgeons (Balt.), 1893. *Surgery, Eye and Ear.*

OLANDER E. WALD. Chicago, Ill.
M. D., College of Physicians and Surgeons (Chicago), 1898. *Histology, Medicine, Physical Diagnosis, and Clinical Microscopy.*

FREDERICK S. WARD. Taunton, Mass.
M. D., Dartmouth Medical College, 1895. *Medicine, Eye and Ear.*

JOSEPH B. WHINERY. Grand Rapids, Mich.
M. D., University of Michigan, 1892. *Medicine, Physical Diagnosis, Gynecology, Clinical Microscopy, and Pathology.*

GEORGE F. ZINNINGER. Canton, O.
M. D., Starling Medical College (Ohio), 1892. *Medicine, Pathology, and Clinical Microscopy.*

UNDERGRADUATE STUDENTS.

MATRICULATES.

RONALD TAYLOR ABERCROMBIE. Private Instruction. *Group III.*	Baltimore.	827 *Hamilton Terrace.*
JOHN ARMSTRONG ADDISON. Baltimore City College, 1900. *Group I.*	Baltimore.	315 *Warren Av.*
WILLIAM WETHERALL AMMEN. Mr. Marston's School. *Group V.*	Baltimore.	1413 *Linden Av.*
HOLLIS ROSWELL BAKER. Western Maryland College. *Group VI.*	Aberdeen.	*Aberdeen.*
LEON KAHN BALDAUF. Dr. Deichmann's School. *Group III.*	Henderson, Ky.	1628 *McCulloh St.*
NORTON LEOPOLD BALDAUF. Dr. Deichmann's School. *Group III.*	Henderson, Ky.	1403 *Madison Av.*
JOHN MARTIN BANDEL. Mr. C. Maupin, Instructor. *Group VI.*	Baltimore.	1613 *Linden Av.*
EDWARD BAILEY BEASLEY. Mr. Marston's School. *Group III.*	Baltimore.	1733 *Park Av.*
BERTRAM MOSES BERNHEIM. Mr. Flexner's School. *Group III.*	Louisville, Ky.	1628 *McCulloh St.*
ELBRIDGE PALMER BERNHEIM. Mr. Flexner's School. *Group III.*	Louisville, Ky.	1628 *McCulloh St.*
ANDREW REID BIRD. Bellevue High School, Va. *Group VI.*	Baltimore.	8 *E. Biddle St.*
FREDERICK CONRAD BLANCK. Baltimore City College, 1900. *Group III.*	Baltimore.	520 *N. Fulton Av.*
SOLOMON BLUM. Mr. Marston's School. *Group VI.*	Baltimore.	1608 *Park Av.*
JOHN MANNING BOOKER. Mr. Marston's School. *Group I.*	Baltimore.	853 *Park Av.*
NORMAN BOYER. Baltimore City College, 1898. *Group VI.*	Baltimore.	1526 *McCulloh St.*
JOHN STRAITH BRISCOE. Baltimore City College, 1898. *Group I.*	Baltimore.	12 *W. North Av.*
ERNEST BONSALL BROWN. Dr. Deichmann's School. *Group VI.*	Church Hill.	906 *McCulloh St.*
ALFRED WILLIAM BRUTON. Mr. Lamb's School. *Group II.*	Baltimore.	804 *W. North Av.*
JAMES WALLACE BRYAN. Mr. Marston's School. *Group III.*	Baltimore.	1305 *Bolton St.*
WILLIAM JACKINS BUTTNER. Baltimore City College, 1898. *Group III.*	Mt. Washington.	*Mt. Washington.*
MORTIMER BYE. Baltimore City College. *Group III.*	Baltimore.	733 *N. Fulton Av.*

HARRY STEPHENSON BYRNE. Baltimore. 422 *Mosher St.*
Baltimore City College, 1896. *Group VI.*

JOHN GORSUCH CAMPBELL. Baltimore County. *Owings Mills.*
Baltimore City College, 1897. *Group III.*

COSEY WALKER CONSTANTINE. Birmingham, Ala. 110 *W. Twenty-third St.*
Webb School (Tenn.). *Group III.*

ROBERT TREAT CRANE. Baltimore County. *Pikesville.*
Mr. Marston's School. *Group VII.*

JAMES BAYARD GREGG CUSTIS, JR. Washington, D. C. 1211 *Madison Av.*
Friends' Select School (Wash.). *Group III.*

FREDERICK RICHARD DAPPRICH. Milwaukee, Wis. *Catonsville.*
Milwaukee High School. *Group III.*

ALBERT GOUCHER DEW. Baltimore. 1623 *Edmondson Av.*
Dr. Deichmann's School. *Group I.*

ROSS MILES DIGGS. Baltimore. 1210 *Linden Av.*
Mr. Marston's School. *Group VI.*

ROBERT SERGEANT DUCK. Baltimore. *W. North Av. and Second St.*
Dr. Deichmann's School. *Group VI.*

AARON EMBER. Baltimore. 201 *S. High St.*
Private Instruction. *Group VII.*

JOSEPH TOWNSEND ENGLAND. Baltimore. 607 *Lennox St.*
Dr. Deichmann's School. *Group V.*

LEYBURN GREAR FISHACH. Baltimore. 432 *E. North Av.*
Baltimore City College, 1896. *Group I.*

JOHN FREDERICK GRAY. New York, N. Y. 515 *Cathedral St.*
Harvard University. *Group I.*

FREDERICK LEE GUGGENHEIMER. Baltimore. 1737 *Park Av.*
Private Instruction. *Group VI.*

WILLIAM HALL HARRIS, JR. Baltimore. 511 *Park Av.*
Dr. Deichmann's School. *Group VI.*

ERNEST CUMMINS HATCH. Lutherville. *Lutherville.*
Baltimore Polytechnic Institute. *Group III.*

JOHN ALAN HAUGHTON. Baltimore. 1004 *N. Calvert St.*
Mr. Marston's School. *Group VII.*

HENRY HONEYMAN HAZEN. Washington, D. C. 1005 *McCulloh St.*
Washington High School. *Group III.*

FRANKLIN HAZLEHURST, JR. Baltimore. 1506 *Hollins St.*
Mr. Marston's School. *Group III.*

HARRY BRIGGS HEALD. Moravia, N. Y. 1022 *Cathedral St.*
St. Stephen's College. *Group I.*

MOSES WALTON HENDRY. Washington, D. C. 1520 *Linden Av.*
Washington High School. *Group I.*

LOUIS FOLTAT HILDEBRANDT. Baltimore. 1325 *N. Stricker St.*
Baltimore City College, 1899. *Group VII.*

JOHN COFFEY HILDT. Baltimore. 1720 *Bolton St.*
Private Instruction. *Group VI.*

EBEN CHARLES HILL. Baltimore. 2120 *N. Charles St.*
Mr. Marston's School. *Group III.*

WILLIAM BRYANT HILL.	Harford County.	1302 *McCulloh St.*
Private Instruction. *Group III.*		
LEE MILTON HOLLANDER.	Baltimore.	1013 *Madison Av.*
Real-Gymnasium, Frankfort, Germany. *Group VII.*		
WILLIAM KIRK.	Baltimore.	1422 *Argyle Av.*
Baltimore City College, 1899. *Group VI.*		
WALTER ISAAC KOHN.	Louisville, Ky.	1628 *McCulloh St.*
Mr. Flexner's School. *Group VI.*		
WILLIAM HOWARD KOPPELMAN.	Baltimore.	605 *N. Carrollton Av.*
Baltimore City College. *Group II.*		
ROBERT SAMPSON LANIER.	Tryon, N. C.	1002 *Cathedral St.*
Boys' Latin School. *Group VI.*		
EUGENE JOSEPH LEOPOLD.	Baltimore.	1227 *Madison Av.*
Baltimore City College. *Group III.*		
EDWARD LOWNDES.	Howard County.	*St. Denis.*
Boys' Latin School. *Group VII.*		
JOHN GRESHAM MACHEN.	Baltimore.	217 *W. Monument St.*
Mr. Marston's School. *Group I.*		
DAVID ISRAEL MACHT.	Baltimore.	1324 *Druid Hill Av.*
Baltimore City College, 1899. *Group III.*		
OGLE MARBURY.	Laurel.	*Laurel.*
Dr. Deichmann's School. *Group VI.*		
CHARLES MARKELL, JR.	Hagerstown.	1630 *Bolton St*
Washington County High School. *Group VI.*		
CHARLES ALEXANDER MARSHALL.	Dorsey.	213 *W. Lanvale St.*
Boys' Latin School. *Group III.*		
BARTGIS MCGLONE.	Baltimore.	613 *N. Calhoun St.*
Private Instruction. *Group III.*		
HORACE JACOB MILLER.	Baltimore.	100 *Milton Av.*
Dr. Deichmann's School. *Group V.*		
ROBERT EMORY MOORE.	Baltimore.	1347 *York Road.*
Baltimore City College, 1899. *Group III.*		
ROBERT BROOKS MORSE.	Baltimore.	1406 *Mt. Royal Av.*
Baltimore City College. *Group II.*		
FRANK DUANE MOWER.	Newberry, S. C.	1032 *N. Eutaw St.*
Newberry College. *Group III.*		
MCHARDY MOWER.	Newberry, S. C.	1032 *N. Eutaw St.*
Private Instruction. *Group VII.*		
WILLIAM URWICK MURKLAND.	Baltimore.	*Roland Park.*
Dr. Deichmann's School. *Group I.*		
LYMAN CLEMENTS MURPHY.	Baltimore.	933 *McCulloh St.*
Mr. Marston's School. *Group III.*		
CHARLES AUGUSTUS MYERS.	Baltimore.	641 *W. Mulberry St.*
Baltimore City College, 1899. *Group VII.*		
JOHN MARBURY NELSON, JR.	Baltimore County.	*Sherwood.*
Mr. Marston's School. *Group III.*		
EDWARD RICHARDS NOBLE.	Johnstown, Pa.	1022 *Cathedral St.*
St. Stephen's College. *Group I.*		

MARBURY BLADEN OGLE. Baltimore. 1801 *W. Lexington St.*
Baltimore City College, 1899. *Group I.*

AUBREY PEARRE, JR. Baltimore. 1601 *Bolton St.*
Boys' Latin School. *Group VI.*

ISAAC ROSENBAUM PELS. Baltimore. 1509 *Madison Av.*
Mr. Marston's School. *Group III.*

EUGENE LEO PESSAGNO. Baltimore. 509 *President St.*
Baltimore City College, 1900. *Group III.*

THOMAS COULSON PINKERTON. Baltimore. *Walbrook.*
Dr. Deichmann's School. *Group III.*

HARRY WARD PLAGGEMEYER. Baltimore. 1040 *Hopkins Av. W.*
Dr. Deichmann's School. *Group III.*

MILTON WILLIAMS POWELL. Baltimore County. *Grange P. O.*
Milton Academy. *Group IV.*

BENJAMIN SWAYNE PUTTS. Baltimore. 1115 *W. Lanvale St.*
Dr. Deichmann's School. *Group III.*

CHARLES FREDERICK RANFT. Baltimore. 717 *W. Baltimore St.*
Baltimore City College, 1899. *Group VI.*

GEORGE EDWARD REHBERGER. Baltimore. 1709 *Aliceanna St.*
Baltimore City College, 1898. *Group III.*

WALTER FORD REYNOLDS. Baltimore. 439 *Roland Av.*
Baltimore City College, 1899. *Group II.*

JOHN ADELBERT RIGGINS. Penngrove, N. J. 1319 *Linden Av.*
Temple College (Phila). *Group VI.*

CHARLES ALBERT ROBINSON, JR. Baltimore. 535 *N. Fulton Av.*
Dr. Deichmann's School. *Group V.*

EDGAR POE SANDROCK. Baltimore. 1242 *N. Broadway.*
Dr. Deichmann's School. *Group III.*

JACOB ABNER SAYLER, JR. Baltimore. 1516 *Eutaw Place.*
Mr. Marston's School. *Group VI.*

WILLIAM CHRISTIAN SCHMEISSER. Baltimore. 2401 *Eutaw Place.*
Baltimore City College, 1899. *Group VI.*

RALPH CARLTON SHARRETTS. Baltimore. *Liberty Road.*
Private Instruction. *Group VI.*

LLOYD PARKER SHIPPEN. Baltimore. 209 *W. Monument St.*
Mr. Marston's School. *Group III.*

OLEN FORREST SHREVE. Easton. 249 *W. Hoffman St.*
Private Instruction. *Group III.*

GIBSON EMERSON SISCO. Baltimore. 2219 *N. Charles St.*
Mr. Marston's School. *Group II.*

JOHN AYDELOTTE SLEMONS. Salisbury. 1024 *N. Broadway.*
Mr. Marston's School. *Group III.*

JOSEPH TATE SMITH, JR. Baltimore. 1010 *Madison Av.*
Mr. Marston's School. *Group III.*

GUY EVERETT SNAVELY. Baltimore County. 419 *E. Lafayette Av.*
Private Instruction. *Group I.*

WILTON SNOWDEN, JR. Baltimore. 605 *Cathedral St.*
Mr. Marston's School. *Group VI.*

CARROLL MASON SPARROW. Baltimore. 321 *E. Twenty-third St.*
Private Instruction. *Group II.*

LINDSAY COLEMAN SPENCER. Baltimore. 1118 *N. Calvert St.*
Mr. Marston's School. *Group I.*

JULIAN SAMUEL STEIN. Baltimore. 2245 *Eutaw Place.*
The Hotchkiss School (Conn.). *Group VI.*

HARVEY BRINTON STONE. Baltimore. *Towson.*
Private Instruction. *Group III.*

HENRY PHILIP STRAUS. Baltimore. 1217 *N. Calvert St.*
Baltimore City College, 1898. *Group II.*

PHILIP RAYNER STRAUS. Baltimore. 1812 *Eutaw Place.*
Mr. Marston's School. *Group III.*

ELLIOT STROUSE. Baltimore. 1724 *Eutaw Place.*
Private Instruction. *Group VI.*

SOLOMON STROUSE. Baltimore. 1704 *Eutaw Place.*
Mr. Marston's School. *Group III.*

OTTO ALBERT STRUTH. Baltimore. 133 *W. Camden St.*
Baltimore City College, 1898. *Group III.*

CHARLES HENRY STUBENRAUCH. Baltimore. 2027 *McCulloh St.*
Baltimore City College, 1900. *Group III.*

WALTER B. SWINDELL, JR. Baltimore. 1022 *W. Lafayette Av.*
Mr. Marston's School. *Group III.*

GEORGE WILLIAM TOWNSEND. Baltimore. 409 *E. Chase St.*
Mr. Hilbert's School. *Group IV.*

WILLIAM KEENE TRAVERS. Baltimore. 205 *N. Fulton Av.*
Baltimore City College, 1900. *Group III.*

JAMES EDWARD TYLER, JR. Baltimore. 1303 *Linden Av.*
Mr. Marston's School. *Group VI.*

HENRY MICHAEL WARNER. Baltimore. 1303 *Madison Av.*
Private Instruction. *Group II.*

AUGUSTUS PRICE WEST. Baltimore. 2438 *Maryland Av.*
Private Instruction. *Group IV.*

HORACE SLINGLUFF WHITMAN. Baltimore. *Walbrook.*
Baltimore City College. *Group VI.*

LUTHER MARTIN REYNOLDS WILLIS. Baltimore. 2129 *E. Baltimore St.*
Friends' School. *Group VI.*

MILTON CHARLES WINTERNITZ. Baltimore. 25 *S. Eden St.*
Dr. Deichmann's School. *Group III.*

MARCUS WILTON WOLF, JR. Baltimore. 210 *Mosher St.*
Baltimore City College. *Group II.*

SAMUEL WOLMAN. Baltimore. 1211 *McElderry St.*
Baltimore City College, 1899. *Group III.*

PEREGRINE WROTH, JR. Baltimore. 215 *E. Preston St.*
Mr. C. Maupin, Instructor. *Group III.*

ALEXANDER YEARLEY, 3D. Baltimore. 1108 *McCulloh St.*
Mr. Marston's School. *Group VI.*

BERNARD FLEMING ZIMMERMAN. Frederick. 1442 *Aisquith St.*
Frederick College. *Group VI.*

Candidates for Matriculation.

LOUIS ADELSDORF. Baltimore. 2224 *Eutaw Place.*
Dr. Deichmann's School. *Group VI.*

SIDNEY HERMAN ADLER. Baltimore. 149 *W. Lafayette Av.*
Dr. Deichmann's School. *Group III.*

ALLMAND BLOW ATKINSON. Baltimore County. *Garrison.*
Mr. Marston's School. *Group VI.*

HARRY NORMAN BAETJER. Baltimore. 2324 *Callow Av.*
Mr. Marston's School. *Group VI.*

ARTHUR NEWSOM BALDAUF. Henderson, Ky. 1403 *Madison Av.*
Dr. Deichmann's School. *Group VI.*

EDGAR SUTRO BAMBERGER. Baltimore. *Northampton Hotel.*
Mr. Marston's School. *Group III.*

HENRY BEEUWKES. Baltimore. 2005 *Druid Hill Av.*
Private Instruction. *Group III.*

WILLIAM SELLMAN BIRD. Baltimore. 1425 *W. Lafayette Av.*
Private Instruction. *Group VI.*

JOSEPH ROBSON BROMWELL BRANCH. Ellicott City. *Ellicott City.*
Boys' Latin School. *Preliminary Year.*

LEWIS URBIN BRUNER. Kansas City, Kan. 620 *W. Mulberry St.*
Kansas City University. *Group II.*

ALPHONSE RAYMOND VIVIAN DOCHEZ. Harford Furnace.
Private Instruction. *Group I.* *Mt. Vernon Hotel.*

HORACE CLENDENIN GILLESPIE. Woodlawn. 933 *McCulloh St.*
West Nottingham Academy. *Group II.*

THEODORE WESLEY GLOCKER. Baltimore. 1105 *Madison Av.*
Baltimore City College, 1900. *Group VI.*

EDWIN JULIUS GUTMAN. Baltimore. 1714 *Eutaw Place.*
Mr. Marston's School. *Preliminary Year.*

JOHN PHELPS HAND. Baltimore. 1838 *W. Saratoga St.*
Mr. Marston's School. *Group I.*

RICHARD CURZON HOFFMAN, JR. Baltimore. 1203 *St. Paul St.*
Mr. Wolfe's School. *Group II.*

WILLIAM EDWIN HOFFMAN, JR. Baltimore. 215 *N. Carey St.*
Dr. Deichmann's School. *Group III.*

STUART CATOR HOPPER. Baltimore. 600 *Cathedral St.*
Mr. Marston's School. *Group V.*

HARRY H. HUMRICHOUSE. Baltimore. 2324 *N. Charles St.*
Mr. Wolfe's School. *Preliminary Year.*

WILLIAM MUSE HUNLEY. Baltimore. 403 *N. Gilmor St.*
Mr. C. Maupin, Instructor. *Group VI.*

FRANCIS NASH IGLEHART. Mt. Washington. *Mt. Washington.*
Mr. C. Maupin, Instructor. *Preliminary Year.*

JOHN FREDERICK KELLER. Baltimore. 2024 *Orleans St.*
Private Instruction. *Group III.*

ROY STILES LICKING. West Chester (Pa.) Normal School. *Preliminary Year.*	Cardiff.	419 *E. Lafayette Av.*
WETHERED LUDLOW LILLY. Boys' Latin School. *Group III.*	Baltimore.	19 *W. Preston St.*
HERBERT THOMAS MAGRUDER. Private Instruction. *Group III.*	Arlington.	1309 *Linden Av.*
WILLIAM HOWARD MATTHAI. Mr. Marston's School. *Group III.*	Baltimore.	1504 *Bolton St.*
BENJAMIN WILCHER MEEKS. Dr. Deichmann's School. *Group I.*	Baltimore.	1717 *W. Franklin St.*
HENRY CLAY MILLER. Milton Academy. *Group V.*	Baltimore.	605 *Park Av.*
ROBINSON CATOR PAGON. Mr. Marston's School. *Group VI.*	Baltimore.	937 *St. Paul St.*
WILLIAM TURNER PARSONS. Private Instruction. *Group III.*	Baltimore.	1623 *N. Calvert St.*
HARRY B. RAFFEL. Private Instruction. *Group VI.*	Baltimore.	728 *Lennox St.*
CHARLES WOODWARD RILEY. Mr. Marston's School. *Group III.*	Baltimore.	1113 *Madison Av.*
WILLIAM PAYNE SHRIVER. Dr. Deichmann's School. *Group VI.*	Baltimore.	1013 *Whitelock St.*
SIDNEY SMITH. Mr. Flexner's School. *Group VI.*	Louisville, Ky.	*The St. Paul.*
G. DRAYTON STRAYER. Private Instruction. *Group II.*	Baltimore.	1214 *Eutaw Place.*
JEROME STROUSE. Mr. Marston's School. *Preliminary Year.*	Baltimore.	1706 *Eutaw Place.*
HARRY KING TOOTLE. St. Joseph High School. *Group VI.*	St. Joseph, Mo.	849 *Hamilton Terr.*
HENRY ERNEST TREIDE. Dr. Deichmann's School. *Group III.*	Baltimore.	232 *S. Patterson Park Av.*
HARRY AUGUSTUS WARNER. Dr. Deichmann's School. *Group III.*	Baltimore.	1120 *Highland Av.*
LEWIS JOSEPH WHITE. Mr. Flexner's School. *Group VI.*	Louisville, Ky.	1314 *McCulloh St.*
WILLIAM EDWARD WOODYEAR. Bucknell University. *Group III.*	Baltimore County.	*St. Denis P. O.*

Special Students.

PHINEAS JENKS SMITH CAMERON. Baltimore. 734 *Reservoir St.*
Baltimore City College. *Chemistry, etc.*

HOWARD WATERS DOUGHTY. Baltimore. 1024 *St. Paul St.*
Proficient in Electricity, Johns Hopkins University, 1898. *Chemistry and Physics.*

JOHN SHARSHALL GRASTY. Baltimore. 1032 *N. Eutaw St.*
Staunton (Va.) Academy. *Group IV.*

MARSHALL DELANCEY HAYWOOD. Raleigh, N. C. 839 *Hamilton Terr.*
History and Politics.

LOUIS SONNEBORN HUTZLER. Baltimore. 1403 *Eutaw Place.*
Private Instruction. *Group II.*

HENRY BLAINE LAW. Cadiz, O. 1717 *Madison Av.*
Cadiz High School. *Group VI.*

NATHAN FRANKLIN NEER, JR. Baltimore. 623 *N. Calhoun St.*
Rock Hill College. *Group VI.*

JOHN MAURICE REHBERGER. Baltimore. 1709 *Aliceanna St.*
Baltimore Polytechnic Institute. *Group IV.*

EDWARD LEOPOLD SCHAUN. Baltimore. 705 *N. Howard St.*
Baltimore Polytechnic Institute. *Group II.*

PAUL EDWARD SCHAUN. Baltimore. 705 *N. Howard St.*
Dr. Deichmann's School. *Group IV.*

ERNEST GAIL SCHMEISSER. Baltimore. 2401 *Eutaw Place.*
Private Instruction. *Group II.*

WILLIAM JAMES SNEERINGER, JR. Baltimore. 1315 *N. Charles St.*
Mr. Marston's School. *Group II.*

HARRY NORMAN SNIVELY. Waynesboro, Pa. 1209 *Madison Av.*
Lafayette College. *Group IV.*

JUSTICE STAHN. Baltimore. 506 *Ensor St.*
Astronomy.

KEEFER SAMUEL TOMS. Frederick. 748 *W. Fayette St.*
Cornell University. *Chemistry.*

LYTTLETON MORGAN TOUGH, JR. Baltimore. 2311 *N. Charles St.*
Mr. Wolfe's School. *Group III.*

ROBERT M. WELCH. Columbus, Neb. 323 *N. Paca St.*
University of Nebraska. *Chemistry and Physics.*

GEORGE WILLIAM CARLYLE WHITING. Baltimore County. *Stevenson.*
Mr. C. Maupin, Instructor. *Group II.*

(18)

Attendants on Single Courses.

English and History.

Rev. ROBERT EMORY GOLLADAY. Baltimore. 1028 *Milton Place.*
St. Paul's Theological Seminary (N. C.).

WILLIAM EMORY WARING, JR. Baltimore. 1311 *Eutaw Place.*
Law School, University of Maryland.

(2)

GOVERNMENT OF THE JOHNS HOPKINS UNIVERSITY

FOR THE YEAR BEGINNING SEPTEMBER 1, 1900.

TRUSTEES.

The Trustees are the ultimate source of authority in all matters pertaining to the University. They act collectively, through the standing committees named on page 2, and through the President of the University, who is *ex officio* a member of the Board.

PRESIDENT.

Daniel C. Gilman.

The duties of this office were thus defined by the Trustees, September 14, 1876:

The President of the University is the authorized means of communication between the Board and the various officers of instruction and administration employed in the University; it shall be his duty to consult with the Professors, in respect to the development of their various departments, and the general interests of the University; to determine the appropriate duties of the Associates and Fellows; and to exercise such superintendence over the buildings, apparatus, books, and other property as will insure their protection and appropriate use. In respect to these matters and all others which concern the welfare of the University, he shall consult frequently with the Executive Committee, and he shall attend the meetings of the Board of Trustees. Purchases, alterations, repairs, and other incidental expenses must not be ordered by any of the officers of the University without his previous assent, or the expressed authority of the Board.

ACADEMIC COUNCIL.

D. C. Gilman (*Pres.*),	H. A. Rowland,	E. H. Griffin,
B. L. Gildersleeve,	Paul Haupt,	H. B. Adams.
Ira Remsen (*Sec'y*),	W. H. Welch,	

By authority of the Trustees, the Academic Council (now consisting of the President and seven Professors) has met since the organization of the University to guide the various departments of study, to select the Fellows, and to act upon such other matters as may be brought before them.

BOARD OF UNIVERSITY STUDIES.

D. C. Gilman (*Pres.*),	H. N. Morse,	Sidney Sherwood,
B. L. Gildersleeve,	Henry Wood,	J. M. Vincent,
Ira Remsen,	W. H. Howell,	H. F. Reid,
H. A. Rowland,	J. W. Bright,	C. W. E. Miller,
Paul Haupt,	W. Hand Browne,	B. J. Vos,
W. H. Welch,	W. B. Clark,	J. H. Hollander,
E. H. Griffin,	J. S. Ames,	Christopher Johnston,
H. B. Adams,	Frank Morley,	C. C. Marden,
W. K. Brooks,	E. H. Spieker,	E. B. Mathews,
Maurice Bloomfield,	E. A. Andrews,	W. W. Willoughby,
A. M. Elliott,	K. F. Smith,	H. C. Jones.

By request of the Academic Council (October 8, 1883), this Board, consisting of the President, eighteen Professors, and fourteen Associate Professors, has charge of the arrangements for the instruction of graduate students, and of the examinations for the degree of Doctor of Philosophy.

ADVISORY BOARD OF THE MEDICAL SCHOOL.

D. C. Gilman (*Pres.*),	H. M. Hurd,	J. J. Abel,
Ira Remsen,	H. A. Kelly,	W. H. Howell (*Dean*),
W. H. Welch,	W. K. Brooks,	F. P. Mall,
William Osler,	W. S. Halsted,	J. W. Williams.

This Board was constituted by resolution of the Trustees (April 3, 1893) "to report to the Trustees from time to time their suggestions, and to prepare and carry forward the proper arrangements for the instruction and graduation of medical students."

BOARD OF COLLEGIATE ADVISERS.

D. C. Gilman (*Pres.*),	W. Hand Browne,	J. M. Vincent,
Ira Remsen,	H. E. Greene,	L. S. Hulburt,
E. H. Griffin (*Dean*),	J. S. Ames,	B. J. Vos,
H. B. Adams,	E. H. Spieker (*Sec'y*),	J. E. Gilpin,
A. M. Elliott,	E. A. Andrews,	E. B. Mathews,
H. N. Morse,	K. F. Smith,	C. C. Marden,
Henry Wood,	Sidney Sherwood,	H. L. Wilson.
Edward Renouf,		

By request of the Academic Council (May 13, 1882), the Board of Collegiate Advisers, consisting of the President and of representatives from each of the chief departments of undergraduate study, confers upon the progress made by the undergraduates and special students, and conducts the examinations for matriculation and for the baccalaureate degree, under the direction of the Academic Council. The other teachers of undergraduates may be called in from time to time to consult.

By resolution of this Board (June 15, 1888), a Standing Committee was appointed to act on all routine matters. The Committee now consists of E. H. Griffin, E. Renouf, E. H. Spieker, and S. Sherwood.

COMMITTEE ON THE LIBRARY.

D. C. Gilman (*Pres.*),	Ira Remsen,	N. Murray (*Sec'y*).
B. L. Gildersleeve,	W. Hand Browne,	

COMMITTEE ON THE GYMNASIUM.

D. C. Gilman (*Pres.*),	E. Renouf,	W. M. Mackdermott.
James L. McLane,	H. F. Reid,	

ADVISORY BOARD OF THE YOUNG MEN'S CHRISTIAN ASSOCIATION.

D. C. Gilman (*Pres.*),	E. H. Griffin (*Sec'y*),	B. C. Steiner.

TABULAR STATEMENTS.

1. Professors and Instructors, 1900–01.

President and Professors,	29
Clinical Professors,	7
Associate Professors,	21
Associates,	23
Instructors and Assistants,	38
Lecturers,	25
	143

The enumeration includes 58 professors and other instructors whose work lies wholly in the Medical School.

2. Students Enrolled, 1900–01.

Fellows by Courtesy,		15
Fellows,		20
Other Graduates,		134
Candidates for the Degree of M. D.,		209
Physicians attending Special Courses,*		102
Undergraduates:		
Candidates for the degree of A. B.,	158	
Not candidates for a degree,	20	
		178
		658
Names counted twice,		7
Total,		651

* Including those entering in 1900 after the issue of the last Register.

3. Enumeration of Degrees of Students, 1900–01.

The above enumeration of students includes—

Doctors of Philosophy,	20	Bachelors of Science,	96
Doctors of Medicine,	97	Bachelors of Philosophy,	17
Masters of Arts,	45	Other Graduates,	13
Masters of Science,	8	Clergymen,	15
Bachelors of Arts,	245		

4. ATTENDANCE UPON THE VARIOUS COURSES OF INSTRUCTION, 1900–01.

Mathematics and Astronomy,	49	Semitic Languages,	23
Physics,	84	German,	111
Chemistry,	121	Romance Languages,	89
Geology and Mineralogy,	27	English and Anglo-Saxon,	144
Biology,	144	History and Political Science,	126
Greek,	28	Philosophy,	49
Latin,	56	Drawing,	69
Sanskrit and Comp. Philology,	29	Forensics and Elocution,	146

5. RESIDENCES OF STUDENTS, 1900–01.

Maryland (Baltimore, 225),	273	Montana,	3
New York,	36	West Virginia,	3
Pennsylvania,	30	Delaware,	2
Virginia,	29	Louisiana,	2
Illinois,	27	Nebraska,	2
Massachusetts,	18	Vermont,	2
Ohio,	17	Arkansas,	1
Wisconsin,	17	Colorado,	1
District of Columbia,	16	Florida,	1
Kentucky,	16	Idaho,	1
California,	14	Mississippi,	1
Georgia,	14	Nevada,	1
North Carolina,	14	North Dakota,	1
Connecticut,	12	Oregon,	1
Minnesota,	11	South Dakota,	1
Missouri,	10	Tennessee,	1
Indiana,	9	Utah,	1
New Jersey,	9		
Iowa,	8	Canada,	8
Maine,	8	Japan,	3
South Carolina,	8	Hawaiian Islands,	2
Alabama,	6	India,	2
Michigan,	6	Persia,	1
Texas,	5	Turkey,	1
Kansas,	3		

6. INSTITUTIONS IN WHICH THE STUDENTS (1900–01) GRADUATED.

Johns Hopkins University,	75	Kansas State University,	3
Yale University,	26	Pennsylvania College,	3
Harvard University,	17	Richmond College,	3
Princeton University,	13	Wake Forest College,	3
Wisconsin, University of,	12	Washington and Jefferson Coll.,	3
Randolph-Macon College,	10	Woman's Medical Coll. (Phila.),	3
Maryland, University of,	9	Woman's College (Balt.),	3
Phys. and Surg., Coll. of (Balt.),	9	Beloit College,	2
Hampden-Sidney College,	8	Brooklyn Polytechnic Institute,	2
Illinois, University of,	8	Buffalo, University of,	2
Amherst College,	7	Chicago Homeopathic Institute,	2
California, University of,	7	Dalhousie University,	2
Cornell University,	7	Franklin and Marshall College,	2
Pennsylvania, University of,	7	Hahnemann Med. Coll. (Chic.),	2
Michigan, University of,	6	General Theological Sem. (N. Y),	2
Bowdoin College,	5	Iowa State University,	2
Columbia, University of,	5	Kentucky Wesleyan College,	2
Dickinson College,	5	Lafayette College,	2
Minnesota, University of,	5	Maryland Agricultural College,	2
Stanford University,	5	McGill University,	2
Virginia, University of,	5	New York University,	2
Williams College,	5	North Carolina Agric. College,	2
Bryn Mawr College,	4	Northwestern University (Ill.),	2
Chicago, University of,	4	Oberlin College,	2
Cincinnati, University of,	4	Ohio Wesleyan University,	2
Columbian University,	4	Pennsylvania College,	2
Georgia, University of,	4	Rochester, University of,	2
Kentucky State College,	4	Rutgers College,	2
Knox College,	4	Smith College,	2
Missouri Medical College,	4	Starling Medical College,	2
North Carolina, University of,	4	Tokyo College of Science,	2
Phys. & Surg., Coll. of (Atlanta),	4	Toronto, University of,	2
St. John's College,	4	Utah, University of,	2
Union College,	4	Washington University,	2
Wellesley College,	4	William and Mary College,	2
Wesleyan University (Conn.),	4	Wilmington College (O.),	2
Western Maryland College,	4	Phys. & Surg., Coll. of (Wis.),	2
Woman's Medical College (Balt.),	4	Adelbert College,	1
Central College (Mo.),	3	Alabama, University of,	1
Cooper Medical College,	3	Albany Medical College,	1
Davidson College,	3	Albion College,	1
Indiana University,	3	Atlanta Medical College,	1
Jefferson Medical College,	3	Beaumont Hospital Med. Coll.,	1

Bellevue Hospital Med. Coll., - 1
Breslau, University of, - - - 1
Campbell University (Kan.), - 1
Central University (Ky.), - - 1
Centre College (Ky.), - - - - 1
Charleston, College of, - - - 1
Chattanooga Med. Coll., - - - 1
Cincinnati Coll. of Med. & Surg., 1
Concordia College, - - - - - 1
Concordia Seminary, - - - - 1
Cornell College, - - - - - 1
Dartmouth College, - - - - 1
Delaware College, - - - - - 1
Earlham College, - - - - - 1
Emory and Henry College, - - 1
Fredericksburg College, - - - 1
Furman University, - - - - 1
Georgetown University, - - - 1
Georgetown College (Ky.), - - 1
Giessen, University of, - - - 1
Gross Medical College, - - - 1
Hebrew Union College, - - - 1
Hobart College, - - - - - - 1
Iowa College, - - - - - - - 1
Iowa State University, - - - 1
Kentucky School of Med., - - 1
Kentucky University, - - - - 1
Leipzig, University of, - - - 1
Long Island Medical College, - 1
Loyola College, - - - - - - 1
Luther College, - - - - - - 1
Maryland Agricultural Coll., - 1
Massachusetts Inst. of Tech., - 1
Miami University, - - - - - 1
Michigan Agricultural Coll., - 1
Michigan, University of, - - - 1
Missouri, University of, - - - 1
Montana, University of, - - - 1
Morningside College, - - - - 1
Muhlenberg College, - - - - 1
Nashville, University of, - - - 1
Naval Medical College (Tokyo), 1
North Dakota, University of, - 1
North Georgia Agric. Coll., - - 1
Northwestern Univ. (Wis.), - 1
Ohio Medical College, - - - 1
Ohio State University, - - - 1
Olivet College, - - - - - - - 1
Pennsylvania College, - - - - 1
Pritchett College, - - - - - 1
Propaganda, College of (Rome), 1
Racine College, - - - - - - 1
Roanoke College, - - - - - 1
Rock Hill College, - - - - - 1
Rush Medical College, - - - 1
South Carolina College, - - - 1
South Carolina Medical College, 1
Southern University, - - - - 1
Southwestern Presbyterian Univ., 1
St. Lawrence University, - - - 1
St. Paul's Seminary (Minn.), - 1
St. Thomas's College (Minn.), - 1
St. Olaf College, - - - - - 1
Swarthmore College, - - - - 1
Texas, University of, - - - - 1
Toronto, University of, - - - 1
Trinity University (Ont.), - - 1
Tufts Medical College, - - - 1
Tulane University, - - - - - 1
Union Christian College, - - - 1
Vanderbilt University, - - - 1
Virginia Military Institute, - - 1
Virginia Polytechnic Institute, - 1
Virginia Theological Seminary, 1
Vermont, University of, - - - 1
Washington College (Md.), - - 1
Washington and Lee University, 1
Weatherford College, - - - - 1
Western Theological Sem. (Pa.), 1
Westminster College (Pa.), - - 1
West Virginia University, - - 1
Wittenberg College, - - - - 1
Williamsport Dickinson Sem., - 1
Wilson College (Pa.), - - - - 1
Wofford College, - - - - - 1
Woman's Medical College (N.Y.), 1
Wooster, University of, - - - 1
Worcester Polytechnic Inst., - 1

7. Fellows.

Bruce Memorial Fellows in Biology.

This fellowship was instituted by Mrs. Bruce, of New York, to commemorate the name of her son, Adam T. Bruce, Jr., Ph. D., Fellow in Biology, 1883–84, and Instructor in Osteology and Mammalian Anatomy, 1886–87. Preference is given to those who have held an ordinary Fellowship in Biology.

(When the institution is not named, this university is to be understood.)

1888. Henry Van Peters Wilson, Ph. D. (1888), Prof. of Biology, Univ. of N. Carolina.
1889. Shozaburo Watase, Ph. D. (1890), Prof. of Cellular Biology, Univ. of Tokyo.
1890. Thomas Hunt Morgan, Ph. D. (1890), Prof. of Biology, Bryn Mawr College. *Reappointed* 1891, *but resigned.*
1891. Robert Payne Bigelow, Ph. D. (1892), Instructor in Biology and Librarian, Mass. Inst. of Technology; Editor-in-Chief, *American Naturalist.*
1892. Robert Payne Bigelow, Ph. D. *Reappointed.*
1893. Maynard Mayo Metcalf, Ph. D. (1893), Prof. of Biology, Woman's Coll., Balt.
1894. Ross Granville Harrison, Ph. D. (1894), Assoc. Prof. of Anatomy. *Did not enter on the fellowship.*
1894. Seitaro Goto, S. D., Prof. of Biology, First High School, Tokyo, Japan.
1895. Henry McElderry Knower, Ph. D. (1896), Instructor in Anatomy.
1895. George Lefevre, Ph. D. (1896), Prof. of Zoology, Univ. of Missouri.
1896. George Lefevre, Ph. D. *Reappointed.*
1897. Franklin Story Conant, Ph. D. (1897). *Did not enter on the fellowship.*
1897. Duncan Starr Johnson, Ph. D. (1897), Associate in Botany.
1898. Gilman Arthur Drew, Ph. D. (1898), Prof. of Biology, Univ. of Maine. *Did not enter on the fellowship.*
1899. Caswell Grave, Ph. D., (1899). *Resigned, and subsequently reappointed.*
1900. Lawrence Edmonds Griffin, Ph. D. (1900), Instructor in Biology, Adelbert Coll.

William S. Rayner Fellow in Semitic Languages.

The Rayner Fellowship was founded by Mrs. Bertha Rayner Frank and Mr. Albert W. Rayner, of Baltimore, to perpetuate in this University the name of their father, Mr. William S. Rayner, who had made unusual attainments in the Hebrew language and was interested in the promotion of Semitic studies. The gift amounted to $10,000, and the income is annually available for a fellowship. [See Annual Report for 1899, page 11.]

1899, 1900. Karl Josef Grimm, Ph. D.

Fellows.

(Arranged under the date of first appointment. When the institution is not named this university is to be understood. Figures in brackets indicate the tenure of the fellowship, when it was held more than one year. *Deceased.)

1876.

Henry Carter Adams, Ph. D., Prof. of Political Economy and Finance, Univ. of Michigan; Statistician, Interstate Commerce Commission.—[1876–79].
Herbert Baxter Adams, Ph. D., LL. D., Associate, Assoc. Prof., and Prof. of American and Institutional History, 1878–1901; Professor Emeritus.—[1876–78].

William Keith Brooks, Ph. D., LL. D., Prof. of Zoölogy; Director of the Chesapeake Zoölogical Laboratory. *Did not enter on the fellowship.*
Samuel Fessenden Clarke, Ph. D., Prof. of Natural History, Williams Coll.—[1876–79].
*Thomas Craig, Ph. D., Instructor, Associate, Assoc. Prof., and Prof. of Pure Mathematics, 1879–1900; Editor, *American Journal of Mathematics*, 1894–99.—[1876–79].
Joshua Walker Gore, C. E., Prof. of Natural Philosophy, etc., Univ. of N. C.—[1876–78].
George Bruce Halsted, Ph. D., Prof. of Mathematics, Univ. of Texas.—[1876–78].
Edward Hart, Ph. D., Prof. of Analytical Chemistry, Lafayette Coll.—[1876–78].
Daniel Webster Hering, C. E., Prof. of Physics, New York Univ.—[1876–78].
Malvern Wells Iles, Ph. D., Consulting Metallurgist, London, England.—[1876–78].
William White Jacques, Ph. D., Lecturer on Telegraph Engineering, Mass. Inst. of Tech., 1885–91; Electrical Engineer, Boston.—[1876–79].
Charles Rockwell Lanman, Ph. D., Prof. of Sanskrit, Harvard Univ.
David McGregor Means, A. B., Prof. of Political and Mental Science, Middlebury Coll., 1877–80; Atty. at Law, New York.
Harmon Northrup Morse, Ph. D., Prof. of Analytical Chemistry. *Did not enter on the fellowship.*
Walter Hines Page, Professor in Louisville (Ky.) Male High School, 1878–79; Editor, *The World's Work*, N.Y.—[1876–78].
*Peter Porter Poinier, M. E. *Did not enter on the fellowship.*
Erasmus Darwin Preston, C. E., U. S. Coast and Geodetic Survey, Washington.—[1876–78].
*Henry Joseph Rice, Sc. D., Prof. of Natural Sciences, Brooklyn High School, 1882–85.—[1876–78].
Josiah Royce, Ph. D., Prof. of the History of Philosophy, Harvard.—[1876–78].
Alexander Duncan Savage, B. Litt., New York.—[1876–79].
Ernest Gottlieb Sihler, Ph. D., Prof. of Latin, New York Univ.—[1876–79].
Frederick Boyd Van Vorst, A. B., Atty. at Law, New York.
*John Henry Wheeler, Ph. D., Prof. of Greek, Univ. of Virginia, 1882–87.

1877.

Francis Greenleaf Allinson, Ph. D., Prof. of Classical Philology, Brown Univ.—[1877–80].
Fabian Franklin, Ph. D. Assistant, Associate, Assoc. Prof., and Prof. of Mathematics, 1879–95; Editor of *The Baltimore News*.—[1877–79.]
Lyman Beecher Hall, Ph. D., Prof. of Chemistry, Haverford Coll.—[1877–79].
Allan Marquand, Ph. D., L. H. D., Prof. of Archæology and the History of Art, Princeton.—[1877–80].

1878.

Maurice Bloomfield, Ph. D., LL. D., Prof. of Sanskrit and Comparative Philology.
Constantine Fahlberg, Ph. D., Chemist, Salbke-Westerhüsen, Germany.—[1878–80].
Edwin Herbert Hall, Ph. D., Prof. of Physics, Harvard Univ.—[1878–80).
Edward Coles Harding, A. M., Prof. of Greek, Univ. of Louisiana, 1879–80; Editor of *The Baltimore American*.
Rev. Charles Robert Hemphill, D. D., LL. D., Prof. of New Testament Exegesis, Louisville Presbyterian Theol. Sem.; Clergyman, Louisville, Ky.
Isaac Ott, M. D., Prof. of Physiology, Medico-Chirurgical Coll. of Philadelphia.
Henry Sewall, Ph. D., M. D., Prof. of Physiology, Univ. of Denver.
Christian Sihler, Ph. D., M. D., Instructor and Acting Prof. of Histology, etc., Western Reserve Univ., 1889–94; Physician, Cleveland, Ohio.—[1877–79].
Washington Irving Stringham, Ph. D., Prof. of Mathematics, Univ. of Cal.—[1878–80].
Charles Ambrose Van Velzer, S. B., Prof. of Mathematics, Univ. of Wisconsin.—[1878–81].
Abram Van Epps Young, Ph. B., Prof. of Chemistry, Northwestern Univ.—[1878–80].

1879.

Brown Ayres, S. B., Prof. of Physics and Electricity, Tulane Univ.
Louis Bevier, Ph. D., Prof. of Greek, Rutgers Coll.—[1879–81.]
William Burney, Ph. D., Prof. of Chemistry, South Carolina Coll.
Edward Mussey Hartwell, Ph. D., M. D., LL. D., Director of Physical Training, Boston Public Schools, 1891–97; Secretary, Dept. of Municipal Statistics, Boston.—[1878–81].
*John Robin McDaniel Irby, Ph. D.
Mitsura Kuhara, Ph. D., Director and Prof. of Chemistry, First Middle School, Tokyo.—[1879–81].
*Oscar Howard Mitchell, Ph. D., Prof. of Mathematics, Marietta Coll., 1882–89.—[1879–82].
Edward Leamington Nichols, Ph. D., Prof. of Physics, Cornell Univ.
George Frederick Nicolassen, Ph. D., Prof. of Greek and German, Southwestern Presbyterian Univ., Tenn.—[1879–81].
Waldo Selden Pratt, A. B., Mus. D., Prof. of Ecclesiastical Music and Hymnology, Hartford (Conn.) Theol. Sem.
Robert Woodworth Prentiss, M. S., Prof. of Mathematics and Astronomy, Rutgers Coll.—[1879–81].
William Thompson Sedgwick, Ph. D., Prof. of Biology, Mass. Inst. of Tech.; Biologist, Mass. Board of Health; Curator, Lowell Inst., Boston.
*Herman Voorhees, C. E. *Did not enter on the fellowship.*
Charles Otis Whitman, Ph. D., LL. D., Prof. of Zoölogy, Univ. of Chicago. *Did not enter on the fellowship.*
Edmund Beecher Wilson, Ph. D., Prof. of Zoölogy, Columbia Univ.—[1879–81].

1880.

James Wilson Bright, Ph. D., Prof. of English Philology.—[1880–82].
Benjamin Chapman Burt, A. B., Acting Prof. of Philosophy and Pedagogy, Univ. of Colorado, 1894–96; Superior, Neb.
Robert Dorsey Coale, Ph. D., Prof. of Chemistry and Toxicology, and Dean of the Medical Faculty, Univ. of Md.
Lawrence Bunting Fletcher, Ph. D., Instructor in Physics, Wesleyan Univ., 1882–83.
*Spencer Hedden Freeman, A. B., Prof. of Physics and Astronomy, Adelbert Coll., 1882–86.—[1880–82].
Kakichi Mitsukuri, Ph. D., Prof. of Zoölogy, Univ. of Tokyo, Japan.
Bernard Francis O'Connor, Ph. D., Instructor and Adjunct Prof. of Romance Lang., Columbia Univ., 1883–91; New York.—[1880–82].
Chase Palmer, Ph. D., Prof. of Chemistry, Manual Training High School, Louisville, Ky.—[1880–82].
Herbert Mills Perry, A. B., late Instructor, Cascadilla School, Ithaca.—[1880–82].
William Lee Rowland, S. B., Chemist, Philadelphia. *Did not enter on the fellowship.*
Andreas Franz Wilhelm Schimper, Ph. D., Prof. of Botany, Univ. of Basle.
Edward Henry Spieker, Ph. D., Assoc. Prof. of Greek and Latin.—[1880–82].
Morrison Isaac Swift, Ph. D., Instructor in Philosophy, Hobart Coll., 1882–84.—[1880–82].
*Arthur Wilson Wheeler, A. B.

1881.

William John Alexander, Ph. D., Prof. of English, Univ. of Toronto.—[1881–83].
Edward Sanford Burgess, Ph. D., Prof. of Natural Science, Normal Coll., N. Y.
William James Comstock, Ph. D., Instructor in Organic Chemistry, Yale Univ.
William Cathcart Day, Ph. D., Prof. of Chemistry and Physics, Swarthmore Coll.—[1881–83].
Henry Herbert Donaldson, Ph. D., Prof. of Comparative Neurology, Univ. of Chicago.—[1881–83].

William Pitt Durfee, Ph. D., Prof. of Mathematics and Dean of the Faculty, Hobart Coll.—[1881–83].
George Stetson Ely, Ph. D., Examiner, U. S. Patent Office.—[1881–83].
Benjamin Ives Gilman, A. B., Curator, Museum of Fine Arts, Boston, Mass.
John Franklin Jameson, Ph. D., LL. D., Prof. of History, Brown Univ.
Charles Herschel Koyl, A. B., Instructor in Physics, Swarthmore, 1887–88; New York.—[1881–83].
Henry Leslie Osborn, Ph. D., Prof. of Biology and Geology, Hamline Univ.
Henry Newlin Stokes, Ph. D., Asst. Prof. of Chemistry, Univ. of Chicago, 1892–94; U. S. Geological Survey, Washington.—[1881–83].
Benjamin Willis Wells, Ph. D., late Prof. of Modern Lang., Univ. of the South; Editor of *The Churchman*, N. Y. *Did not enter on the fellowship.*

1882.

Charles John Bell, A. B., Prof. of Chemistry, Univ. of Minnesota. *Did not enter on the fellowship.*
James McKean Cattell, Ph. D., Prof. of Psychology, Columbia Univ.; Editor of *Science.*
Ellery William Davis, Ph. D., Prof. of Mathematics, Univ. of Nebraska.—[1882–84].
David Talbot Day, Ph. D., U. S. Geological Survey, Washington, D. C.—[1882–84].
Alfred Emerson, Ph. D., Assoc. Prof. of Classical Archæology, Cornell Univ.—[1882–84].
William Scott Fleming, A. B., Prof. of Greek, Davidson Coll., 1883–85; Wetumpka, Ala.
Arthur Lincoln Frothingham, Jr., Ph. D., Prof. of Ancient History and Archæology, Princeton.—[1882–85].
Henry Root Goodnow, A. B., New York.
Elgin Ralston Lovell Gould, Ph. D., President, City and Suburban Homes Co., New York.—[1882–84].
Arthur Stafford Hathaway, S. B., Prof. of Mathematics, Rose Polytech. Inst.—[1882–84].
William Henry Howell, Ph. D., M. D., Prof. of Physiology, and Dean of the Medical Faculty.—[1882–84].
Edward Harrison Keiser, Ph. D., Prof. of Chemistry, Washington Univ.—[1882–84].
Arthur Lalanne Kimball, Ph. D., Prof. of Physics, Amherst Coll.
Harry Fielding Reid, Ph. D., Assoc. Prof. of Geological Physics. *Did not enter on the fellowship.*

1883.

William Muse Arnolt, Ph. D., Instructor and Assistant Recorder, Univ. of Chicago.—[1883–85].
Gustav Bissing, Ph. D., Patent Attorney, Washington.
*Adam Todd Bruce, Ph. D., Instructor in Osteology, etc., 1886–87.
Archibald Lamont Daniels, D. Sc., Prof. of Mathematics and Physics, Univ. of Vermont.
John Dewey, Ph. D., Prof. of Philosophy, Univ. of Chicago.
*James Reynolds Duggan, Ph. D., Prof. of Chemistry, Wake Forest, 1886–88.
Hans Carl Günther von Jagemann, Ph. D., Prof. of Germanic Philology, Harvard.
*Gustav Adolph Liebig, Jr., Ph. D., Assistant in Electricity, 1887–90.—[1883–85].
Charles William Emil Miller, Ph. D., Assoc. Prof. of Greek.—[1883–85].
Charles Albert Perkins, Ph. D., Prof. of Physics, Univ. of Tennessee.
*Louis Tebbetts Stevens, M. D., late Lecturer, Washington Univ.
Lewis Webb Wilhelm, Ph. D., Mathematical Instructor, Baltimore.

1884.

Ethan Allen Andrews, Ph. D., Assoc. Prof. of Biology.—[1884–86].
Henry Crew, Ph. D., Prof. of Physics, Northwestern Univ.—[1884–86].
Homer Winthrop Hillyer, Ph. D., Asst. Prof. of Organic Chemistry, Univ. of Wisconsin.
Rev. Abel Henry Huizinga, Ph. D., Adjunct Prof., McCormick Theol. Sem., 1894–96; Clergyman, Fishkill, N. Y.—[1884–86].

Frederick Schiller Lee, Ph. D., Adjunct Prof. of Physiology, Columbia Univ.
Charles Herbert Levermore, Ph. D., President of Adelphi College, Brooklyn.
Henry Francis Nachtrieb, S. B., Prof. of Biology, Univ. of Minnesota.
Henry Barber Nixon, Ph. D., Prof. of Mathematics, Pennsylvania Coll.
William Noyes, Jr., M. D., Superintendent, Boston Insane Hospital, Mattapan, Mass.
Albert Gallatin Palmer, Ph. D., Asst. Prof. of Chemistry, Swarthmore Coll., 1886–87; Norwood, Md.
Ernest Mondell Pease, A. B., Prof. of Latin, Stanford Univ.—[1884–86].
Albert Harris Tolman, Ph. D., Asst. Prof. of English Literature, Univ. of Chicago. *Did not enter on the fellowship.*
Woodrow Wilson, Ph. D., LL. D., Lecturer on Constitutional Law, New York Law School; Prof. of Jurisprudence and Politics, Princeton.

1885.

Cyrus Adler, Ph. D., Librarian of the Smithsonian Institution; Prof. of Oriental History and Archæology, Columbian Univ.—[1885–87].
*David Barcroft, Ph. D.
William Shirley Bayley, Ph. D., U. S. Geological Survey; Prof. of Geology and Mineralogy, Colby Univ.—[March, 1885–June, 1886].
Louis Bell, Ph. D., Prof. of Physics, Purdue Univ., 1888–90; Electrical Engineer, Boston.—[1885–87].
William Henry Burnham, Ph. D., Asst. Prof. of Pedagogy, Clark Univ.
Francis Albert Christie, A. B., Prof. of Church History, Theol. School, Meadville, Pa.—[1885–87].
Davis Rich Dewey, Ph. D., Prof. of Economics and Statistics, Mass. Inst. of Tech.
Albert E. Egge, Ph. D., Prof. of English, Washington Agric. Coll.
William Henry Emerson, Ph. D., Prof. of Chemistry, Georgia School of Tech.
John Charles Fields, Ph. D., late Prof. of Mathematics, Allegheny Coll.
Joseph Jastrow, Ph. D., Prof. of Experimental Psychology, Univ. of Wisconsin.
George Theophilus Kemp, Ph. D., M. D., Prof. of Physiology, Univ. of Illinois.
Marion Dexter Learned, Ph. D., Prof. of German, Univ. of Pennsylvania.
Gonzalez Lodge, Ph. D., Prof. of Greek and Latin, Teachers Coll., N. Y.
Arthur McDonald, A. B., Bureau of Education, Washington, D. C. *Did not enter on the fellowship.*
Charles Skeele Palmer, Ph. D., Prof. of Chemistry, Univ. of Colorado.
George Thomas White Patrick, Ph. D., Prof. of Philosophy, Iowa State Univ. *Reappointed 1887, but resigned.*
Moses Stephen Slaughter, Ph. D., Prof. of Latin, Univ. of Wisconsin.
Charles Whetham, A. B., President of Whetham Coll., Vancouver, B. C., 1890–93; Toronto, Ont.
Charles Baker Wright, A. B., Prof. of English Literature and Rhetoric, Middlebury Coll. *Did not enter on the fellowship.*

1886.

Edgar Pierce Allen, A. B., Shanghai, China.—[1886–88].
John Pendleton Campbell, Ph. D., Prof. of Biology, Univ. of Georgia.
Henry Clarke, A. B., Classical Instructor, London, England.
Herbert Charles Elmer, Ph. D., Asst. Prof. of Latin, Cornell Univ.
Henry Brayton Gardner, Ph. D., Prof. of Political Economy, Brown Univ.
*Milton Haight, A. B., Prof. of English and Mathematics, Sapporo Agric. Coll., Japan, 1887–92; Instructor, Strathroy, Canada, 1893–96.
John Leslie Hall, Ph. D., Prof. of English and History, William and Mary Coll.
Charles Willard Hayes, Ph. D., U. S. Geological Survey, Washington.
George Benjamin Hussey, Ph. D., Classical Instructor, High School, N. Y.
James Hervey Hyslop, Ph. D., Prof. of Logic and Ethics, Columbia Univ.
Andrew Cowper Lawson, Ph. D., Prof. of Geology, Univ. of California.

Franklin Paine Mall, M. D., Prof. of Anatomy.—[1896–98].
Yujiro Motora, Ph. D., Prof. of Psychology, etc., Univ. of Tokyo, Japan.
Julius Nelson, Ph. D., Prof. of Biology, Rutgers Coll.
William Ridgely Orndorff, Ph. D., Asst. Prof. of Organic Chemistry, Cornell Univ.
Daniel Richard Randall, Ph. D., Attorney at Law, Annapolis, Md.
Henry Dallas Thompson, D. Sc., Ph. D., Prof. of Mathematics, Princeton.
Edward Burr Van Vleck, Ph. D., Assoc. Prof. of Mathematics, Wesleyan Univ.
*Amos Griswold Warner, Ph. D., Prof. of Economics, Stanford Univ., 1893–1900.
John Roaf Wightman, Ph. D., Prof. of Romance Lang., Oberlin Coll.

1887.

Joseph Sweetman Ames, Ph. D., Prof. of Physics.
Philip Wheelock Ayres, Ph. D., Director, Summer School, Charity Organization Soc., N.Y.
William Snyder Eichelberger, Ph. D., Prof. of Mathematics, U. S. Navy, Washington.
Henry Rushton Fairclough, Ph. D., Assoc. Prof. of Greek and Latin, Stanford Univ. *Did not enter on the fellowship.*
*William Curns Lawrence Gorton, Ph. D., Assoc. Prof. and Prof. of Mathematics and Astronomy, Woman's Coll., Balt., 1888–94.
William Herbert Hobbs, Ph. D., Prof. of Mineralogy, etc., Univ. of Wisconsin.
Joseph Hoeing Kastle, Ph. D., Prof. of Chemistry, Kentucky State Coll.
Felix Lengfeld, Ph. D., Asst. Prof. of Inorganic Chemistry, Univ. of Chicago.
Archibald MacMechan, Ph. D., Prof. of English, Dalhousie Univ.
Herbert William Magoun, Ph. D., Prof. of Latin, Redfield College, S. Dak.
*Thomas McCabe, Ph. D., Assoc. in Romance Lang., Bryn Mawr, 1890–91.
John Leverett Moore, Ph. D., Prof. of Greek and Latin, Vassar Coll.
Augustus Taber Murray, Ph. D., Prof. of Greek, Stanford Univ.
Edmund Clark Sanford, Ph. D., Prof. of Experimental Psychology, Clark Univ.
Charles Lee Smith, Ph. D., Prof. of History, William Jewell Coll., Mo.
Arthur Clarence Wightman, Ph. D., Prof. of Biology and Physics, Randolph-Macon Coll.
Henry Van Peters Wilson, Ph. D., Bruce Fellow, 1888–89; Prof. of Biology, Univ. of North Carolina.

1888.

Charles McLean Andrews, Ph. D., Prof. of History, Bryn Mawr.
Frank Wilson Blackmar, Ph. D., Prof. of History and Sociology, Univ. of Kansas.
Charles Augustus Borst, A. B., Assistant in Astronomy, 1889–92.
William Merriam Burton, Ph. D., Superintendent, Standard Oil Co., Whiting, Ind.
Morgan Callaway, Jr., Ph. D., Prof. of English Philology, Univ. of Texas.
Charles Hiram Chapman, Ph. D., President of the Univ. of Oregon, 1893–99.
Edwin Whitfield Fay, Ph. D., Prof. of Latin and Greek, Univ. of Texas.—[1888–90].
Adam Capen Gill, Ph. D., Asst. Prof. of Mineralogy, etc., Cornell Univ.
Joseph Edward Harry, Ph. D., Prof. of Greek, Univ. of Cincinnati.
James Taft Hatfield, Ph. D., Prof. of German, Northwestern Univ.
*George Allison Hench, Ph. D., Instructor, Asst. Prof., and Prof. of German, Univ. of Michigan, 1890–99.
Clifton Fremont Hodge, Ph. D., Asst. Prof. of Physiology, Clark Univ.
Cary Talcott Hutchinson, Ph. D., Acting Assoc. Prof. of Electricity, 1898–99; Consulting Engineer, N. Y.
Alvin Frank Linn, Ph. D., Prof. of Chemistry and Mineralogy, Wittenberg Coll., O. *Did not enter on the fellowship.*
Thomas Logie, Ph. D., Assoc. Prof. of Romance Lang., Rutgers Coll., 1893–96.
Alfred Edward Thayer, M. D., Asst. Prof. of Materia Medica, Pathology, etc., West. Va. Univ., 1899–1900; Physician, N. Y.
*James Starr Trueman, A. B., Prof. of Greek and Latin, Allegheny Coll., 1889–92.
Shosaburo Watase, Ph.D., Bruce Fellow, 1889–90; Prof. of Cellular Biology, Univ. of Tokyo.

1889.

Rev. Edward Carey Applegarth, Ph. D., M. D., Clergyman, Boston, Mass.
Arthur George Blachstein, A. B., M. D., St. Petersburg, Russia.
Rudolf John Julius de Roode, Jr., Ph. D., Analytical Chemist, New York.
George Peter Dreyer, Ph. D., Prof. of Physiology, Med. Dept., Univ. of Ill.
Hermann Louis Ebeling, Ph. D., Prof. of Greek, Miami Univ., 1891–99; Trenton, N. J.
Charles Jaques Goodwin, Ph. D., Prof. of Greek, Lehigh Univ.
Christopher Johnston, Jr., Ph. D., Assoc. Prof. of Oriental History, etc.—[1889–91].
Hiram Benjamin Loomis, Ph. D., Science Instructor, Medill High School, Chicago.
John Hanson Thomas McPherson, Ph. D., Prof. of History, Univ. of Georgia.
Thomas Hunt Morgan, Ph. D., Bruce Fellow, 1890; Prof. of Biology, Bryn Mawr.
Daniel Alexander Murray, Ph. D., Instructor in Mathematics, Cornell Univ.
Charles Lane Poor, Ph. D., Instructor, Assoc., and Assoc. Prof. of Astronomy, 1891–99; New York.
George Mann Richardson, Ph. D., Prof. of Organic Chemistry, Stanford Univ.
John Cunningham Robertson, Ph. D., Prof. of Greek, St. Stephen's Coll., N. Y.
*Charles Hunter Ross, Ph. D., Prof. of Modern Lang., Alabama Polytech. Inst., 1892–1900.
Joseph Samuel Shefloe, Ph. D., Prof. of Romance Lang. and Librarian, Woman's Coll., Baltimore.
Robert Benson Steele, Ph. D., Prof. of Latin, Illinois Wesleyan Univ.
Bert John Vos, Ph. D., Assoc. Prof. of German.—[1889–91].
James Albert Woodburn, Ph. D., Prof. of American History, Indiana Univ.

1890.

William Wilson Baden, Ph. D., Prof. of Latin, Univ. of Idaho.—[1890–92.]
Robert Payne Bigelow, Ph. D., Bruce Fellow, 1891–93; Instructor in Biology and Librarian, Mass. Inst. of Tech.; Editor-in-Chief, *American Naturalist*.
Edwin Grant Conklin, Ph. D., Prof. of Comparative Embryology, Univ. of Pa.
Rev. William Levering Devries, S. T. B., Ph. D., Clergyman, Washington, D. C.
George Houghton Gilman, A. B., LL. B., Atty. at Law, New York. *Did not enter on the fellowship.*
Thomas Perrin Harrison, Ph. D., Prof. of English, Davidson Coll.
Charles Rollin Keyes, Ph. D., Mining Expert, Des Moines.
Edwin Seelye Lewis, Ph. D., Prof. of Romance Lang., Princeton.
Arthur Stanley Mackenzie, Ph. D., Prof. of Physics, Bryn Mawr.
Henry Parker Manning, Ph. D., Asst. Prof. of Mathematics, Brown Univ.
Wilfred Pirt Mustard, Ph. D., Prof. of Latin, Haverford Coll.
Barker Newhall, Ph. D., Prof. of Greek, Kenyon Coll.
Edward Bennett Rosa, Ph. D., Prof. of Physics, Wesleyan Univ.
Charles Edward Saunders, Ph. D., Prof. of Chemistry, Central Univ., Ky., 1891–93; Ottawa, Canada.
Bernard Christian Steiner, LL. B., Ph. D., Librarian, Pratt Library; Dean and Prof., Balt. Law School; Associate in History.
John White, Jr., Ph. D., Prof. of General and Anal. Chemistry, Univ. of Nebraska.
Westel Woodbury Willoughby, Ph. D., Assoc. Prof. of Political Science.

1891.

Edward Ambrose Bechtel, Ph. D., Associate in Latin, Univ. of Chicago. *Did not enter on the fellowship.*
Julius Blume, Modern Lang. Master, University School, Baltimore, 1892–99; Germany.
Albert Bernhardt Faust, Ph. D., Assoc. Prof. of German, Wesleyan Univ.
Simon Flexner, M. D., Prof. of Pathology, Univ. of Pa.
Ulysses Sherman Grant, Ph. D., Prof. of Geology, Northwestern Univ.

William Asbury Harris, Ph. D., Prof. of Greek, Baylor Univ., Texas.
Harry Clary Jones, Ph. D., Assoc. Prof. of Physical Chemistry.
James Lawrence Kellogg, Ph. D., Asst. Prof. of Biology, Williams Coll.
Elmer Peter Kohler, Ph. D., Associate Prof. of Chemistry, Bryn Mawr.
*Paul Erasmus Lauer, Ph. D., Assistant Supt. of Schools, Cleveland, O., 1892–93.
David Judson Lingle, Ph. D., Instructor in Physiology, Univ. of Chicago.
John Hanson Thomas Main, Ph. D., Prof. of Greek and Acting Prest. (1900–01), Iowa Coll.
Frank Jewett Mather, Jr., Ph. D., Instructor in English, Williams Coll.; Asst. Editor, *The Evening Post*, N. Y.
Michael Andrew Mikkelsen, Ph. D., Montclair, N. J.
John Dynely Prince, Ph. D., Prof. of Semitic Lang., etc., New York Univ.
Brantz Mayer Roszel, Ph. D., Instructor in Physics, Washington (D. C.) High School.
George Owen Squier, Ph. D., Captain U. S. A.; U. S. Signal Service, Washington.
Sidney Grant Stacey, Ph. D., Instructor in Latin, Brooklyn High School.
Joseph Moody Willard, A. B., Prof. of Mathematics, Pennsylvania State Coll.

1892.

Burleigh Smart Annis, A. B., Instructor in Mathematics, High School, Hartford, Conn.
Lewellys Franklin Barker, M. B., Prof. of Anatomy, Univ. of Chicago.
Melvin Brandow, A. B., Assistant Librarian.
Alexander Mitchell Carroll, Ph. D., Prof. of Classical Philology, Columbian Univ.
Harry Max Ferren, A. B., Instructor in German, Allegheny (Pa.) High School.
David Hull Holmes, Ph. D., Classical Instructor, High School, Brooklyn.
Arthur John Hopkins, Ph. D., Asst. Prof. of Chemistry, Amherst Coll.
Theodore Hough, Ph. D., Asst. Prof. of Biology, Mass. Inst. of Tech.
James Alton James, Ph. D., Prof. of European History, Northwestern Univ.
Francis Plaisted King, Ph. D., Asst. Geologist of Georgia, 1893–96; Saratoga Springs, N.Y.
Emory Bair Lease, Ph. D., Instructor in Latin, College of the City of New York.
*Edward Payson Manning, Ph. D., Instructor, St. Lawrence Univ., 1894–95.
Louis Emil Menger, Ph. D., Prof. of Romance Philology, Bryn Mawr.
*Lucius Salisbury Merriam, Ph. D., Instructor in Political Economy, Cornell, 1893–94.
Mayo Maynard Metcalf, Ph. D., Bruce Fellow, 1893; Prof. of Biology, Woman's Coll., Baltimore.
*René de Poyen-Bellisle, Ph. D., Instructor in Romance Philol., Chicago, 1894–1900.
Arthur Percy Saunders, Ph. D., Instructor in Chemistry, Hamilton College.
Rev. Daniel Gurden Stevens, Jr., Ph. D., Clergyman, Bryn Mawr, Pa.—[1892–94].
Frederick Tupper, Jr., Ph. D., Prof. of Rhetoric and English Lit., Univ. of Vermont.
Frank Alfred Wolff, Jr., Ph. D., Chemist, Dept. of Agriculture, Washington.

1893.

Thomas Stockham Baker, Ph. D., Lecturer in German; Prof. of Mod. Lang., Tome Inst.
John Spencer Bassett, Ph. D., Prof. of History, Trinity Coll., N. C.
George Melville Bolling, Ph. D., Assoc. Prof. of Greek, Catholic Univ.
Abraham Cohen, Ph. D., Associate in Mathematics.
Ervin Sidney Ferry, S. B., Prof. of Physics, Purdue Univ.
William Francis Gallaway, Ph. D., Classical Instructor, Savannah, Ga.
Ross Granville Harrison, Ph. D., M. D., Bruce Fellow, 1894; Assoc. Prof. of Anatomy.
Bert Holmes Hite, M. S., Prof. of Agric. Chemistry, West Va. Univ.—[1893–95].
Samuel Verplanck Hoffman, M. E., Morristown, N. J.
Jacob H. Hollander, Ph. D., Assoc. Prof. of Finance; Treasurer of Porto Rico.
Charles William Leverett Johnson, Ph. D., Instructor in Greek, Yale Univ., 1897–1900; Baltimore.
George Wesley Johnston, Ph. D., Lecturer in Latin, Univ. of Toronto.
George Charles Keidel, Ph. D., Associate in Romance Languages.—[1893–95].
Edward Bennett Mathews, Ph. D., Assoc. Prof. of Mineralogy.

Edwin Fitch Northrup, Ph. D., Assoc. Prof. of Physics, Univ. of Texas, 1896–97; Baltimore.—[1893–95].
Alfred William Stratton, Ph. D., Principal and Professor of Sanskrit, Oriental Coll. of Lahore, India.
Frederick Henry Sykes, Ph. D., University Extension Lecturer, Philadelphia; Lecturer, 1900–1901.
George Francis Weida, Ph. D., Prof. of Pure Chemistry, Kansas Agric. Coll.

1894.

Arthur Fisher Bentley, Ph. D., Journalist, Chicago.
Samuel Walker Beyer, Ph. D., Assoc. Prof. of Geology, Iowa Agric. Coll.
Clarence Griffin Child, Ph. D., Asst. Editor, Worcester's Dictionary; Instructor in English, Univ. of Pa.
Frank Hollinger Clutz, Ph. D., Instructor, Midland Coll., Kan.—[1894–96].
Fonger DeHaan, Ph. D., Associate in Spanish, Bryn Mawr. *Did not enter on the fellowship.*
Henry Stewart Gane, Ph. D., U. S. Geological Survey, Washington.
William August Haussman, Ph. D., Instructor in German, Allegheny High School, Pa.
Reid Hunt, Ph. D., M. D., Associate Prof. of Pharmacology.—[1894–96].
Thomas Franklin Kane, Ph. D., Prof. of Latin, Univ. of Washington.
William Hamilton Kirk, Ph. D., Classical Instructor, Rutgers Coll.
Henry McElderry Knower, Ph. D., Bruce Fellow, 1895–96; Instructor in Anatomy.
George Lefevre, Ph. D., Bruce Fellow, 1895–97; Prof. of Zoölogy, Univ. of Missouri.
Caspar Levias, A. B., Prof. of Exegesis and Hebrew Grammar, Hebrew Union Coll., Cincinnati. *Reappointed* 1895, *but resigned.*
William Henry Maltbie, Ph. D., Prof. of Mathematics, Woman's Coll., Baltimore.
Thomas Francis Moran, Ph. D., Prof. of History and Economics, Purdue Univ.
Louis Trenchard More, Ph. D., Prof. of Physics, Univ. of Cincinnati.
James Flack Norris, Ph. D., Asst. Prof. of Chemistry, Mass. Inst. of Tech.
Herbert Dodge Pease, M. B., Yale Univ.

1895.

Norman Ross Carmichael, A. M., Lecturer in Electricity, Queen's Univ., Canada.
Arthur Douglas Chambers, Ph. D., Chemist, Ashburn, Mo.
*Franklin Story Conant, Ph. D., Bruce Fellow, 1897.
Rev. Eneas Bernard Goodwin, A. B., Clergyman, Chicago.
William Jackson Humphreys, Ph. D., Instructor in Physics, University of Va.
Oliver Martin Johnston, Ph. D., Asst. Prof. of Romanic Lang., Stanford Univ.
Gordon Jennings Laing, Ph. D., Instructor in Latin, Univ. of Chicago.
*Louis Eugene Livingood, M. D., Assistant in Pathology, 1896–98, and Associate, 1898.
Ebenezer Mackay, Ph. D., Prof. of Chemistry and Mineralogy, Dalhousie Univ.
John McLaren McBryde, Jr., Ph. D., Prof. of English, Hollins Inst., Va.
Henry Ludwell Moore, Ph. D., Prof. of Economics, Smith Coll.
Charles William Peppler, Ph. D., Prof. of Greek, Emory Coll., Ga.
Franklin Lafayette Riley, Ph. D., Prof. of History, Univ. of Miss.
Frederick George Gottlob Schmidt, Ph. D., Prof. of Modern Lang., Univ. of Oregon.
John Adams Scott, Ph. D., Asst. Prof. of Greek, Northwestern Univ.
George Otis Smith, Ph. D., U. S. Geological Survey, Washington.
M. Victor Staley, Ph. D., Prof. in the Univ. of Washington.
Thomas Hardy Taliaferro, Ph. D., Instructor in Mathematics, Pennsylvania State Coll.
Harry Langford Wilson, Ph. D., Associate in Latin. *Did not enter on the fellowship.*

1896.

Edward Cooke Armstrong, Ph. D., Associate Prof. (*elect*) of French.
James Morton Callahan, Ph. D., Lecturer, 1899–1900; Washington, D. C.
Edward Perkins Carter, M. D., Physician, Cleveland, O.

Hubert Lyman Clark, Ph. D., Prof. of Biology, Olivet Coll.
Noah Ernest Dorsey, Ph. D., Associate in Physics.
Pelham Edgar, Ph. D., Prof. of Modern Lang., Victoria Univ., Ont.
Edwin Luther Green, Ph. D., Adjunct Prof. of Ancient Lang., S. Carolina Coll.
Arthur Sewall Haggett, Ph. D., Instructor in Greek, Worcester Academy, Mass.
William Edwards Henderson, Ph. D., Asst. Prof. of Anal. Chemistry, Ohio State Univ.
Charles Hoeing, Ph. D., Instructor in Latin, Univ. of Rochester.—[1896–98].
Duncan Starr Johnson, Ph. D., Bruce Fellow, 1897–98; Associate in Botany.
Rev. Paul Henry Land, A. B., Clergyman, Lima, Ohio.
Omera Floyd Long, Ph. D., Instructor in Latin, Northwestern Univ.
William Tyler Mather, Ph. D., Assoc. Prof. of Physics, Univ. of Texas.
Jens Anderson Nees, A. B., Associate in Sanskrit, Univ. of Chicago, 1900; Fellow by Courtesy.—[1896–98].
Alexander Pell, Ph. D., Prof. of Mathematics, Univ. of South Dakota.
Cornelius William Prettyman, Ph. D., Prof. of German, Dickinson Coll.
*Charles Dabney Ragland, Ph. D., Prof. of Chemistry, Randolph-Macon Coll., 1896–1900.
Frank Roy Rutter, Ph. D., Dept. of Agriculture, Washington.
George Burbank Shattuck, Ph. D., Associate in Physiographic Geology.

1897.

Cleveland Abbe, Jr., Ph. D., Prof. of Natural Sciences, Winthrop Coll., S. C.
Charles Hillman Brough, Ph. D., Prof. of Economics and History, Mississippi Coll.
Pierce Butler, Ph. D., Instructor in English, Univ. of Texas.—[1897–99].
Killis Campbell, Ph. D., Instructor in English, Univ. of Texas.
Gilman Arthur Drew, Ph. D., Bruce Fellow, 1898; Prof. of Biology, Univ. of Maine.
Charles Wilson Greene, Ph. D., Prof. of Physiology, Univ. of Missouri.
Karl Joseph Grimm, Ph. D., William S. Rayner Fellow in Semitic Lang.—[1897–99.]
James Graham Hardy, Ph. D., Instructor in Mathematics, Williams Coll.
William App Jones, Ph. D., Analytical Chemist, New York City.
William Kurrelmeyer, Ph. D., Assistant in German.—[1897–99].
Guy Carleton Lee, Ph. D., Instructor in History.
Charles Elwood Mendenhall, Ph. D., Instructor in Physics and Mathematics, Williams.
Samuel Alfred Mitchell, Ph. D., Tutor in Astronomy, Columbia Univ.
Joseph Longworth Nichols, A. B., M. D., U. S. Legation, Madrid.
William Albert Nitze, Ph. D., Lecturer in Romance Lang., Columbia Univ.
Daniel Allen Penick, Ph. D., Instructor in Greek and Latin, Univ. of Texas.
Ebenezer Emmet Reid, Ph. D., Prof. of Chemistry and Physics, Charleston Coll.
William Berney Saffold, Ph. D., Prof. of Latin, Univ. of Alabama. *Did not enter on the fellowship.*
Henry Nevill Sanders, A. B., Lecturer in Greek, McGill Univ.
Charles William Waidner, Ph. D., Instructor in Physics, Williams Coll.

1898.

Thomas Sewell Adams, Ph. D., San Juan, Porto Rico.
John William Basore, Ph. D., Professor of Latin, Hampden-Sidney Coll., 1899–1900.
Frank Ringgold Blake, A. B., Fellow in Semitic Lang.—[1898–1901].
Joseph Scudder Chamberlain, Ph. D., Instructor in Chemistry, Oberlin Coll., 1899–1900.
Percy Millard Dawson, A. B., M. D., Instructor in Physiology.
George Stronach Fraps, Ph. D., Instructor in Chemistry, N. C. Agric. and Mech. Coll.
Pierre Joseph Frein, Ph. D., Instructor in Romanic Lang., Stanford Univ.
Leonidas Chalmers Glenn, Ph. D., Assoc. Prof. of Biology and Geology, S. Carolina Coll.
Caswell Grave, Ph. D., Bruce Fellow.
Hollister Adelbert Hamilton, Ph. D., Prof. of Greek, Elmira Coll.
George Oscar James, Ph. D., Lecturer in Mathematics, Columbian Univ.; Civil Service Examiner; Fellow by Courtesy.

Joseph Francis Merrill, Ph. D., Prof. of Physics, Univ. of Utah.
Alfred William Milden, Ph. D., Prof. of Classics, Emory and Henry Coll.
Eugene Lindsay Opie, A. B., M. D., Instructor in Pathology.
Frederick Albert Saunders, Ph. D., Instructor in Physics, Haverford Coll.
Laurence Frederick Schmeckebier, Ph. D., U. S. Geological Survey, Washington.
Henry Skinner West, Ph. D., Principal, Western High School, Balt.

1899.

George Ernest Barnett, Ph. D., Asst. in Economics. [*Reappointed* 1900, *but resigned*].
William Martin Blanchard, Ph. D., Instructor in Chemistry, Rose Polytechnic Inst.
Charles Edward Caspari, Ph. D., Assistant in Organic Chemistry, Columbia. [*Resigned, without entering on the fellowship*].
Luther Pfahler Eisenhart, Ph. D., Instructor in Mathematics, Princeton.
Herbert Baldwin Foster, Ph. D., Acting Prof. of Greek, St. Stephen's Coll., N. Y.
William Linwood Foushee, Ph. D., Acting Prof. of Latin, Mercer Univ.
Clyde Chew Glascock, Ph. D., Instructor in German, Yale.
Lawrence Edmonds Griffin, Ph. D., Bruce Fellow, 1900; Instructor in Biology, Adelbert.
Sivert N. Hagen, Ph. D., Instructor in English, Iowa State Univ.
Joseph Cawdell Herrick, Ph. D., Instructor in Sciences, St. Joseph's Sem., Yonkers, N.Y.
*Julian Huguenin, Ph. D., Acting Prof. of English, Univ. of Louisiana, 1900–01.
Walter Hullihen, Ph. D., Fellow by Courtesy.
Charles August Kraus, S. B., Instructor in Physics, Univ. of Kansas.
Harry Taylor Marshall, A. B., M. D., Assistant in Pathology.
John Charles Olsen, Ph. D., Asst. Prof. of Chemistry, Brooklyn Polytechnic Inst.
Herbert Meredith Reese, Ph. D., Assistant, Lick Observatory.
George Burr Richardson, S. B., U. S. Geological Survey; Fellow by Courtesy.
Richard Burton Rowe, Ph. D., U. S. Geological Survey.
James Eustace Shaw, Ph. D., Instructor in Italian.
Charles Clinton Weaver, Ph. D., President of Rutherford Coll., N. C.

The list of the present holders of fellowships is given on page 14.
The whole number of Fellows appointed in twenty-five years is 422.

8. Doctors of Philosophy.

(When the institution is not named, this university is to be understood. (F) indicates that the person has held a fellowship here. *—Died.)

1878.

Henry Carter Adams, (F), A. B., Iowa, 1874, Instructor, 1879–81, Lecturer, 1882–94, Lecturer and Assoc. Prof., Cornell, 1879–87.—Prof. of Political Economy, etc., Univ. of Mich.; Statistician, Interstate Commerce Commission.

*Thomas Craig, (F), C. E., Lafayette, 1875, U. S. Coast Survey, 1879–81, Instructor, Associate, Assoc. Prof., and Prof. of Pure Mathematics, 1879–1900; Editor, *American Jour. of Mathematics*, 1894–1899. **May* 8, 1900.

Josiah Royce, (F), A. B., Univ. of Cal., 1875, Asst. Prof., Univ. of Cal., 1878–82.—Prof. of Hist. of Philosophy, Harvard.

Ernest Gottlieb Sihler, (F), Concordia, 1869, Prof., Concordia Coll., Milwaukee, 1891–92.—Prof. of Latin, N. Y. Univ. (4)

1879.

Maurice Bloomfield, (F), A. M., Furman, 1877, LL. D., Princeton, 1896, Associate and Assoc. Prof., 1881–91.—Prof. of Sanskrit and Compar. Philol.

Samuel Fessenden Clarke, (F), Ph. B., Yale, 1878, Asst., 1879–81.—Prof. of Natural History, Williams Coll.

George Bruce Halsted, (F), A. B., Princeton, 1875, Tutor and Instructor, Princeton, 1878–84.—Prof. of Mathematics, Univ. of Texas.

Edward Hart, (F), S. B., Lafayette, 1874.—Prof. of Analytical Chemistry, Lafayette.

William White Jacques, (F), S. B., Mass. Inst. of Tech., 1876, and Lecturer in the Inst., 1885–91.—Elec. Engineer, Boston.

Henry Sewall, (F), S. B., Wesleyan, 1876, Hon. M. D., Univ. of Mich., 1888, M. D., Univ. of Colorado, 1889, Associate, 1880–82, Prof., Univ. of Mich., 1882–89.—Prof. of Physiology, Univ. of Denver. (6)

1880.

Francis Greenleaf Allinson, (F), A. B., Haverford, 1876, A. B., Harvard, 1877, Asst. Prof., Haverford, 1880–82, Assoc. Prof., Williams, 1892–95.—Prof. of Classical Philology, Brown Univ.

Fabian Franklin, (F), Ph. B., Columbian, 1869, Assistant, Associate, Assoc. Prof., and Prof. of Mathematics, 1879–95.—Editor of *The Baltimore News*.

Edwin Herbert Hall, (F), A. B., Bowdoin, 1875, Assistant, 1880–81, Instructor and Asst. Prof., Harvard, 1881–95.—Prof. of Physics, Harvard.

Allan Marquand, (F), A. B., Princeton, 1874, L. H. D., Hobart, 1888.—Prof. of Archæology, etc., Princeton.

Washington Irving Stringham, (F), A. B., Harvard, 1877.—Prof. of Mathematics, Univ. of Cal. (5)

1881.

Louis Bevier, (F), A. B., Rutgers, 1878, Instructor and Adjunct Prof., Rutgers, 1881–92.—Prof. of Greek, Rutgers.

Robert Dorsey Coale, (F), Assistant, 1881–83.—Prof. of Chemistry, and Dean of the Medical Faculty, Univ. of Md.

Edward Allen Fay, A. B., Univ. of Mich., 1862.—Vice-Pres. and Prof. of Languages, Gallaudet Coll.

Lawrence Bunting Fletcher, (F), A. B., Columbia, 1877, Instructor in Physics, Wesleyan, 1882–83.—Marlboro, N. Y.

Samuel Garner, A. B., St. John's, 1871, Prof., Univ. of Indiana, 1881–87.—Prof. of Modern Lang., U. S. Naval Acad.

Edward Mussey Hartwell, (F), Amherst (A. B., 1873, LL. D., 1898), M. D., Miami Med. Coll., 1882, Instructor and Associate, 1883–91, Director of Physical Training, Boston Public Schools, 1891–97.—Sec., Dept. of Municipal Statistics, Boston.

William Thompson Sedgwick, (F), Ph. B., Yale, 1877, Assistant and Associate, 1880–83.—Prof. of Biology, Mass. Inst. of Tech.; Biologist, Mass. Board of Health; Curator, Lowell Inst., Boston.

Christian Sihler, (F), Concordia, 1866, M. D., Univ. of Mich., 1871, Assistant, 1879–80, Instructor and Acting Prof., Western Reserve, 1888–94.—Physician, Cleveland, O.

Edmund Beecher Wilson, (F), Ph. B., Yale, 1878, Assistant, 1881–82, Lecturer, Williams, 1883–84, Assoc. Prof. and Prof., Bryn Mawr, 1885–91.—Prof. of Zoölogy, Columbia. (9)

1882.

James Wilson Bright, (F), A. B., Lafayette, 1877, Assistant, 1882–83, Instructor, Cornell, 1885, Instructor, Associate, and Assoc. Prof., 1885–93.—Prof. of English Philology; Associate Editor of *Modern Language Notes.*

John Franklin Jameson, (F), A. B., Amherst, 1879, and LL. D., 1898, Assistant and Associate, 1882–88, Lecturer, 1890–91. —Prof. of History, Brown Univ.

Mitsuru Kuhara, (F), S. B., Univ. of Tokyo, 1877, Lecturer, Univ. of Tokyo, 1882–87.—Director and Prof. of Chemistry, First Middle School, Tokyo.

Robert Wright Mahon, C. E., Lehigh, 1876, Tutor, Lafayette, 1882–83, Acting Prof., Rose Polytech. Inst., 1888–89.—Chemist, McKeesport, Pa.

*Oscar Howard Mitchell, (F), A. B., Marietta, 1875, Prof. of Mathematics, Marietta Coll., 1882–89. **March* 29, 1889.

George Frederick Nicolassen, (F), A. B., Univ. of Virginia, 1879, Assistant, 1881–82.—Prof. of Greek and German, Southwestern Presbyterian Univ., Tenn.

William Albert Noyes, A. B., Iowa, 1879, Instructor, Univ. of Minn., 1882–83, Prof., Univ. of Tenn., 1883–86.—Prof. of Chemistry, Rose Polytechnic Inst.

Chase Palmer, (F), A. B., 1879, Assistant, Mass. Inst. of Tech., 1882–83, Prof., Mass. Normal School, Salem, 1883–87, Assistant, Tufts Coll., 1887–88, Prof., Wabash Coll., 1888–90.—Prof. of Chemistry, Manual Training High School, Louisville, Ky.

Edward Henry Spieker, (F), A. B., 1879, Instructor and Associate, 1882–88.—Assoc. Prof. of Greek and Latin. (9)

1883.

William John Alexander, (F), A. B., London, 1876, Prof., Dalhousie, 1883–89.—Prof. of English, Toronto.

William Cathcart Day, (F), A. B., 1880, Prof. St. John's Coll., 1883–84, and Univ. of Nashville, 1884–87.—Prof. of Chemistry, Swarthmore Coll.

William Pitt Durfee, (F), A. B., Univ. of Mich., 1876.—Prof. of Mathematics and Dean of the Faculty, Hobart Coll.

Kakichi Mitsukuri, (F), Ph. B., Yale, 1879. —Prof. of Zoölogy, Univ. of Tokyo.

George Stetson Ely, (F), A. B., Amherst, 1878, Prof. of Mathematics, Buchtel, 1883–84.—Examiner, U. S. Patent Office.

Bernard Francis O'Connor, (F), B. ès Lett., Univ. of France, 1874, Instructor and Adjunct Prof. of Romance Lang., Columbia, 1883–91.—New York. (6)

1884.

Herbert William Conn, A. B., Boston Univ., 1881, Assistant, 1883–84.—Prof. of Biology, Wesleyan Univ., Conn.

Ellery William Davis, (F), S. B., Univ. of Wis., 1879, Prof., Florida Agric., 1884–88, and Univ. of S. C., 1888–93.—Prof. of Mathematics, Univ. of Neb.

David Talbot Day, (F), A. B., 1881.—U. S. Geol. Survey, Washington.

John Dewey, (F), A. B., Univ. of Vt., 1879, Instructor and Prof., Univ. of Mich., 1884–94.—Prof. of Philosophy, Univ. of Chicago.

*James Reynolds Duggan, (F), A. B., Mercer, 1877, M. D., Jefferson Med. Coll., 1879, Prof. of Chemistry, Wake Forest, 1886–88. **January* 10, 1888.

William Henry Howell, (F), A. B., 1881, M. D. (Hon.), Univ. of Mich., 1890, Asst., Associate, and Assoc. Prof., 1884–89, Lecturer and Prof., Univ. of Mich., 1889–92, Assoc. Prof., Harvard, 1892–93.—Prof. of Physiology; Associate Editor of the *Journal of Experimental Medicine;* Dean of the Medical Faculty.

Hans Carl Günther von Jagemann, (F), Naumburg Gymnas, 1876, Prof., Earlham, 1884–85, and Indiana Univ., 1885–89. —Prof. of Germanic Philology, Harvard.

Edward Harrison Keiser, (F), S. B., Swarthmore, 1880, Assistant, 1884–85, Assoc. Prof. and Prof., Bryn Mawr, 1885–99. —Prof. of Chemistry, Washington Univ.

Arthur Lalanne Kimball, (F), A. B., Princeton, 1881, Associate and Assoc. Prof., 1884–91.—Prof. of Physics, Amherst.

Henry Leslie Osborn, (F), A. B., Wesleyan, 1878, Prof., Purdue Univ., 1884–87.—Prof. of Biology and Geology, Hamline Univ.

Charles Albert Perkins, (F), A. B., Williams, 1879, Assistant, 1884–87, Associate, Bryn Mawr, 1887–91, Prof., Hampden Sidney, 1891–92.—Prof. of Physics, Univ. of Tenn.

Albert Shaw, A. B., Iowa, 1879, Reader, 1889–90, Lecturer, 1891–92.—Editor, *The Review of Reviews,* New York.

Henry Newlin Stokes, (F), S. B., Haverford, 1879, Asst. Prof. of Chemistry, Univ. of Chicago, 1893–94.—U. S. Geological Survey, Washington, D. C.

Lewis Webb Wilhelm, (F), A. B., 1880.—Vice-Principal, College Prep. School, Baltimore.

Arthur Yager, A. B., Georgetown, Ky., 1878.—Prof. of History, Georgetown. (15)

1885.

Edward Webster Bemis, A. B., Amherst, 1880, Instructor, Amherst, 1885–86, Adjunct Prof., Vanderbilt. 1886–92, Assoc., Prof., Univ. of Chicago, 1892–95.—Bureau of Economic Research, N. Y.

Gustav Bissing, (F), A. B., 1882, Examiner, U. S. Patent Office, 1884–97.—Patent Attorney, Washington.

Henry Herbert Donaldson, (F), A. B., Yale, 1879, Assistant, 1883–84, Instructor and Associate, 1885–89, Asst. Prof., Clark Univ., 1889–92.—Prof. of Neurology, Univ. of Chicago.

Louis Duncan, U. S. Naval Academy, 1880, Associate and Assoc. Prof. of Electricity, 1886–99.—Consulting Engineer, N. Y.

Homer Winthrop Hillyer, (F), S. B., Univ. of Wis., 1882, Instructor, Univ. of Wis., 1885–90.—Asst. Prof. of Organic Chemistry, Univ. of Wisconsin.

Frederic Schiller Lee, (F), A. B., St. Lawrence Univ., 1878, Instructor, St. Lawrence, 1886–87, Associate, Bryn Mawr, 1887–91.—Adjunct Prof. and Demonstrator of Physiology, Columbia.

*Gustav Adolph Liebig, Jr., (F), A. B., 1882, Assistant, 1887–90. * *February* 10, 1897.

James Playfair McMurrich, A. B., Toronto, 1879, Instructor, 1884–86, Prof., Haverford, 1886–89, Instructor, Clark, 1889–91, Prof., Univ. of Cincinnati, 1891–94.—Prof. of Anatomy, Univ. of Mich.

Albert Gallatin Palmer, (F), A. B., 1882, Assistant and Asst. Prof., Swarthmore, 1885–87.—Norwood, Md.

Harry Fielding Reid, (F). A. B., 1880, Assistant, 1882–84, Lecturer, 1894–96, Prof., Case School, 1886–94, Assoc. Prof., Univ. of Chicago, 1895–97.—Assoc. Prof. of Geological Physics.

Henry Alford Short, A. B., Columbia, 1880, Fellow of Columbia, 1880–83, and Tutor, 1885–88.—New York.

Morrison Isaac Swift, (F), A. B., Williams, 1879, Instructor in Philosophy, Hobart Coll., 1882–84.

Henry Alfred Todd, A. B., Princeton, 1876, Instructor and Associate, 1883–91, Prof., Stanford Univ., 1891–93.—Prof. of Romance Philol., Columbia. (13)

1886.

William Shirley Bayley, (F), A.B., 1883.—U. S. Geological Survey; Prof. of Geology and Mineralogy, Colby Univ.

*Adam Todd Bruce, (F), A. B., Princeton, 1881, Instructor in Osteology, etc., 1886–87. **February* 9, 1887.

Davis Rich Dewey, (F), A.B., Univ. of Vt., 1879, Lecturer, 1895–96.—Prof. of Economics, etc., Mass. Inst. of Tech.

William Henry Emerson, (F), U. S. Naval Acad., 1880, Prof., S. C. Military Acad., 1886–88.—Prof. of Chemistry, Ga. School of Technology, Atlanta.

Joseph Auguste Fontaine, College of Sion, France, 1879, Instructor, Univ. of Neb., 1887–89, Prof., Univ. of Miss., 1889–91, Prof. of Romance Lang. Bryn Mawr, 1891–99.

Elgin Ralston Lovell Gould, (F), A. B., Victoria (Ont.), 1881, Instructor, Washington High School, 1884–87, Reader, 1887–89, Lecturer, 1892–97, Prof., Univ. of Chicago, 1895–96.—President, City and Suburban Homes Co., N. Y.

William Penn Holcomb, B. L., Swarthmore, 1878, Prof. of History, etc., Swarthmore, 1886–94.—Charlestown, N. H.

Joseph Jastrow, (F), A. B., Univ. of Pa., 1882.—Prof. of Experimental Psychology, Univ. of Wisconsin.

George Theophilus Kemp, (F), A. B., 1883, M. D., Long Island Med. Coll., 1891, Demonstrator, Univ. of Pa., 1886–87, Associate and Assoc. Director, etc., Hoagland Lab., 1888–93.—Prof. of Physiology, Univ. of Illinois.

Charles Herbert Levermore, (F), A. B., Yale, 1879, Instructor, Univ. of Cal., 1886–88, Prof. of History, Mass. Inst. of Tech., 1888–93.—President, Adelphi Coll., Brooklyn.

Gonzalez Lodge, (F), A. B., 1883, Prof., Davidson Coll., 1886–88, Prof., Bryn Mawr, 1889–1900.—Prof. of Greek and Latin, Teachers Coll., N. Y.

Charles William Emil Miller, (F), A. B., 1882, Peoria (Ill.) High School, 1888–90, and Walther Coll., St. Louis, 1890–91.—Assoc. Prof. of Greek.

Henry Barber Nixon, (F), Univ. of N. C., 1878.—Prof. of Mathematics, Pennsylvania Coll.

Charles Skeele Palmer, (F), A.B., Amherst, 1879.—Prof. of Chemistry, Univ. of Colorado.

Burr James Ramage, A. B., Newberry, 1880. —Prof. of Common Law and Dean of the Law School, Univ. of the South.

Shosuke Sáto, S. B., Sapporo Agric. Coll., 1880.—Acting Director and Prof. of Agricultural Economics, Imperial Coll. of Agric., Sapporo, Japan.

Woodrow Wilson, (F), A. B., Princeton, 1879, LL. D., Wake Forest, 1887, and Tulane, 1898, Associate and Assoc. Prof., Bryn Mawr, 1885–1888, Prof., Wesleyan Univ., 1888–90, Lecturer, 1887–98.—Lecturer, New York Law School; Prof. of Jurisprudence and Politics, Princeton. (17)

1887.

Cyrus Adler, (F), A. B., Univ. of Pa., 1883, Instructor, 1887–90, Associate, 1890–93.—Librarian of the Smithsonian Inst.; Prof. of Oriental History, etc., Columbian.

Ethan Allen Andrews, (F), Ph. B., Yale, 1881, Instructor and Associate, 1887–92. —Assoc. Prof. of Biology.

Rev. Albert Clayton Applegarth, A.B., 1884. —Clergyman, Huntingdon, Pa.

*David Barcroft, (F), Ph. B., Univ. of Cal., 1882. **August* 2, 1894.

Henry Gustav Beyer, M.D., Bellevue Hosp. Med. Coll., 1876, M. R. C. S. (London), Director of Physical Training, U. S. Naval Acad., 1891–95.—Surgeon, U. S. N.

Richard Newman Brackett, A. B., Davidson, 1883.—Asst. Prof. of Chemistry, Clemson Agric. Coll., S. C.

Henry Crew, (F), A. B., Princeton, 1882, Asst., 1887–88, Instructor, Haverford, 1888–91.—Prof. of Physics, Northwestern Univ.

Albert E. Egge, (F), A. B., Luther Coll., 1879, Prof., St. Olaf Coll., 1887–92, Instructor, Iowa Univ., 1892–96.—Prof. of English, Washington Agric. Coll.

John Charles Fields, (F), A. B., Toronto, 1884, Prof. of Mathematics, Allegheny Coll., 1889–98.

Andrew Fossum, A.B., Luther, 1882.—Prof. of Greek, St. Olaf Coll.

Richmond Harding, A. B., Davidson, 1880. —Prof. of Greek, Davidson Coll.

Charles Willard Hayes, (F), A. B., Oberlin, 1883.—U. S. Geol. Survey, Washington.

William Adam Hedrick, A.M., Columbian, 1884.—Instructor in Physics, High School, Washington.

Frank Gaylord Hubbard, A. B., Williams, 1880, Instructor, Smith Coll., 1887–88, and Univ. of Cal., 1888–92.—Prof. of English, Univ. of Wis.

George Benjamin Hussey, (F), A. B., Columbia, 1884, Fellow, Princeton, 1888–90, Instructor and Assoc. Prof., Univ. of Neb., 1891–94, Docent, Chicago, 1894–1900. —Classical Instructor, High School, N.Y.

James Hervey Hyslop, (F), A.B., Wooster, 1877, Instructor, Bucknell, 1888–89.—Prof. of Logic and Ethics, Columbia.

Marion Dexter Learned, (F), A. B., Dickinson, 1889, Instructor, Associate, and Assoc. Prof., 1886–95.—Prof. of German, Univ. of Pa.

William Ridgely Orndorff, (F), A.B., 1884. —Asst. Prof. of Organic Chemistry, Cornell Univ.

Daniel Richard Randall, (F), A. B., St. John's, 1883.—Atty. at Law, Annapolis.

Frederick Morris Warren, A. B., Amherst, 1880, Instructor and Associate, 1886–91.—Prof. of Romance Lang., Adelbert, 1891–1901; Prof. (*elect*), Yale Univ.; Lecturer in French Literature. (20)

1888.

William Muss Arnolt, (F), B. D., New Brunswick Theol. Sem., 1882, Instructor, 1891–93, Asst. Prof., Univ. of Mich., 1893–94.—Instructor and Asst. Recorder, Univ. of Chicago.

Philip Wheelock Ayres, (F), Ph. B., Cornell, 1884.—Director, Summer School, Charity Organization Society, N. Y.

Louis Bell, (F), A. B., Dartmouth, 1884, Prof. of Physics, Purdue Univ., 1888–89.—Electrical Engineer, Boston; Lecturer, Mass. Inst. of Tech., 1900–01.

Benjamin Lester Bowen, A. B., Rochester, 1881, Prof., Bowdoin, 1888–89.—Prof. of Romance Lang., Ohio State Univ.

William Henry Burnham, (F), A. B., Harvard, 1882, Instructor, 1888–89.—Asst. Prof. of Pedagogy, Clark Univ.

Richard Eugene Burton, A. B., Trinity (Conn.), 1883, Lecturer, 1898.—Prof. of English, Univ. of Minn.

John Pendleton Campbell, (F), A.B., 1885. —Prof. of Biology, Univ. of Ga.

Herbert Charles Elmer, (F), A. B., Cornell, 1883.—Asst. Prof. of Latin, Cornell.

Robert Orlando Graham, A. B., Amherst, 1877.—Prof. of Chemistry and Geology, Illinois Wesleyan.

Erasmus Haworth, S.B., Kansas Univ., 1881, Prof., Oskaloosa Coll., 1882–92.—Prof. of Physical Geology, etc., Kansas Univ.

Francis Hobart Herrick, A.B., Dartmouth, 1881.—Prof. of Biology, Adelbert.

William Herbert Hobbs, (F), S. B., Worcester Polytechnic, 1883.—Prof. of Mineralogy, etc., Univ. of Wis.

Joseph Hoeing Kastle, (F), S.B., Ky. State, 1884.—Prof. of Chemistry, Ky. State Coll.

Andrew Cowper Lawson, (F), A. B., Toronto, 1883.—Prof. of Geol., Univ. of Cal.

Felix Lengfeld, (F), Prof., S. Dakota School of Mines, 1890–91, Instructor, Univ. of Cal., 1891–92.—Asst. Prof. of Inorganic Chemistry, Univ. of Chicago.

Archibald Byron Macallum, A.B., Toronto, 1886.—Assoc. Prof. of Physiology, Univ. of Toronto.

John Ernst Matzke, A.B., Hope Coll., 1882, Prof., Bowdoin Coll., 1889–90, and Indiana Univ., 1890–91, Associate, 1891–93.—Prof. of Romanic Lang., Stanford Univ.

*Thomas McCabe, (F), A. B., 1886, Instructor, Univ. of Mich., 1888–89, Prof., Indiana Univ., 1889–90, Associate in Romance Lang., Bryn Mawr, 1890–91. **February* 22, 1891.

Yujiro Motora, (F), Doshisha Kyoto, Japan, 1879.—Prof. of Psychology, Univ. of Tokyo.

Julius Nelson, (F), S. B., Univ. of Wisconsin, 1881.—Prof. of Biology, Rutgers.

George Thomas White Patrick, (F), A. B., Iowa Univ., 1878, B. D., Yale, 1885.—Prof. of Philosophy, Iowa State Univ.

Edmund Clark Sanford, (F), A. B., Univ. of Cal., 1883, Instructor, 1888–89.—Prof. of Experimental Psychology, Clark Univ.

Henry Taber, Ph. B., Yale, 1882, Assistant, 1888–89.—Asst. Prof. of Mathematics, Clark Univ.

*Amos Griswold Warner, (F), B. L., Univ. of Neb., 1885, General Sec., Charity Organization Soc., Balt., 1887–89, Prof., Univ. of Neb., 1889–91, Supt. of Charities in the District of Columbia, 1891–93, Lecturer, 1892–93, Prof. of Economics, Stanford Univ., 1893–1900. **January* 18, 1900.

John Roaf Wightman, (F), A. B., Toronto, 1871, Prof., Iowa Coll., 1889–91, Assoc. Prof., Univ. of Neb., 1891–93.—Prof. of Romance Lang., Oberlin.

Henry Van Peters Wilson, (F), A. B., 1883, Bruce Fellow, 1888–89.—Prof. of Biology, Univ. of N. C.

Thomas Kimber Worthington, A. B., Haverford, 1883, LL. B., Univ. of Md., 1900.

1889.

Charles McLean Andrews, (F), A.B., Trinity (Conn.), 1884.—Prof. of History, Byrn Mawr.

Frank Wilson Blackmar, (F), Ph. B., Univ. of the Pacific, 1881.—Prof. of History, etc., Univ. of Kansas.

Jeffrey Richardson Brackett, A. B., Harvard, 1883.—Prest., Supervisors of Charities, Balt.; Lecturer on Public Aid, etc.

William Merriam Burton, (F), A.B., Adelbert, 1886.—Supt., Standard Oil Company, Whiting, Ind.

Morgan Callaway, Jr., (F), A. B., Emory (Ga.), 1881, Prof., Southwestern Univ., 1889–90.—Prof. of English Philology, Univ. of Texas.

Albert Robert Louis Dohme, A. B., 1886.—Manufacturing Chemist, Balt.

*William Curns Lawrence Gorton, (F), A. B., 1886, Assoc. Prof. and Prof. of Mathematics, Woman's Coll., Balt., 1888–94. **November* 8, 1894.

Joseph Edward Harry, (F), A. B., 1886, Prof., Georgetown, Ky., 1889–1900.—Prof. of Greek, Univ. of Cincinnati.

*George Allison Hench, (F), A. B., Lafayette, 1885, Instructor, Asst. Prof., and Prof. of German, Univ. of Mich., 1890–99. **August* 16, 1899.

Clifton Fremont Hodge, (F), A. B., Ripon, 1882, Instructor, Univ. of Wis., 1891–92.—Asst. Prof. of Physiology, Clark Univ.

Cary Talcott Hutchinson, (F), Ph. B., Washington Univ., 1886, Acting Assoc. Prof. of Electricity, 1898–99.—Consulting Engineer, N. Y.

James Thomas Lees, A. B., Adelbert, 1886.—Prof. of Greek, Univ. of Neb.

Archibald MacMechan, (F), A.B., Toronto, 1884.—Prof. of English, Dalhousie.

Charles William Moulton, A. B., Univ. of Minn., 1885.—Prof. of Chemistry, Vassar.

Albion Woodbury Small, A.B., Colby, 1876, Reader, 1888–89, Pres., Colby Univ., 1889–92.—Prof. of Sociology, Univ. of Chicago.

Charles Lee Smith, (F), S.B., Wake Forest, 1884, Instructor, 1889–91, General Sec., Charity Organization Soc., Balt., 1889–91.—Prof. of History, William Jewell Coll.

Kirby Flower Smith, A. B., Univ. of Vt., 1884, Instructor and Associate, 1889–93.—Assoc. Prof. of Latin.

Rev. Lemon Leander Uhl, A. B., Wittenberg, 1871.—Missionary, Guntur, India.

Arthur Clarence Wightman, (F), A. B., Wofford, 1879, Demonstrator, 1889-90, Prof., Md. Agric., 1890-91.—Prof. of Biology and Physics, Randolph-Macon.

*William Klapp Williams, A. B., 1886.—*June* 4, 1897. (20)

1890.

Joseph Sweetman Ames, (F), A. B., 1886, Assistant, Associate, and Assoc. Prof., 1889-98.—Prof. of Physics.

Rev. Edward Carey Applegarth, (F), A.B., 1887, M. D., Coll. of Phys. and Surg., Balt., 1892.—Clergyman, Boston, Mass.

Charles Cotton Blackshear, A. B., Mercer, 1881, Instructor, Bryn Mawr, 1890-91.—Prof. of Chemistry, Woman's Coll., Balt.

Charles Hiram Chapman, (F), A. B., 1888, Instructor and Associate, 1889-92, President, Univ. of Oregon, 1893-99.—Portland, Ore.

Rudolf John Julius de Roode, Jr., (F), S. B., Ky. State Coll., 1885.—Supt., Bureau of Tests, Internat. Paper Co., N. Y.

George Peter Dreyer, (F), A. B., 1887, Demonstrator, Associate, Assoc. Prof., 1890-1900.—Prof. of Physiology, Med. Dept., Univ. of Ill.

Edwin Whitfield Fay, (F), A. M., Southwestern Presb. Univ., 1883, Instructor, Univ. of Mich., 1890-91, Acting Prof., Univ. of Texas, 1892-93, Prof., Washington and Lee, 1893-99.—Prof. of Latin, Univ. of Texas.

Henry Torsey Fernald, S. B., Maine State, 1885, late Prof., Pa. State Coll.—Prof. of Entomology, Mass. Agric. Coll.

Henry Brayton Gardner, (F), A.B., Brown, 1884.—Prof. of Political Economy, Brown.

Charles Jaques Goodwin, (F), A. B., Bowdoin, 1887, Prof., Cornell Coll., 1890-92, Tutor, Wesleyan Univ., 1892-95, Acting Prof., St. Stephen's Coll., N. Y., 1898-99.—Prof. of Greek, Lehigh Univ.

Charles Homer Haskins, A. B., 1887, Instructor, 1889-90, Lecturer, Harvard, 1899-1900.—Prof. of Institutional History, Univ. of Wisconsin.

James Taft Hatfield, (F), A. B., Northwestern, 1883.—Prof. of German, Northwestern Univ.

John Cohn Hemmeter, M.D., Univ. of Md., 1883.—Clinical Prof. of Medicine, Univ. of Md.; Physician, Balt.

Charles Holmes Herty, Ph. B., Univ. of Ga., 1886.—Adjunct Prof. of Chemistry, Univ. of Ga.

Jesse Herman Holmes, A. B., Univ. of Neb., 1884.—Prof. of History and Biblical Lit., Swarthmore Coll.

Rev. Abel Henry Huizinga, (F), A. B., Hope Coll., 1880, Adjunct Prof., McCormick Theol. Sem., 1894-96.—Clergyman, Fishkill, N. Y.

Toyokichi Iyenaga, Ph. B., Oberlin, 1887.—Prof. of Political Science, Semmo Gakko, Tokyo.

Thomas Logie, (F), A. B., Toronto, 1887, Asst. Prof., Williams Coll., 1890-93, Assoc. Prof. of Romance Lang., Rutgers, 1893-98.

Hiram Benjamin Loomis, (F), A.B., Trinity (Conn.), 1885, Instructor, Univ. of Wis., 1890-93, Asst. Prof., Northwestern Univ., 1893-96, and Instructor in the Academy, 1896-97.—Science Instructor, Medill High School, Chicago.

Herbert William Magoun, (F), A.B., Iowa, 1879, Acting Prof., Colo. Coll., 1890-91, and Oberlin, 1892-95.—Prof. of Latin, Redfield Coll., S. Dak.

John Hanson Thomas McPherson, (F), A. B., 1886, Instructor, Univ. of Mich., 1890-91.—Prof. of History, Univ. of Ga.

Wilmot Vernon Metcalf, A. B., Oberlin, 1883.—Prof. of Chemistry and Physics, Carleton Coll.

Thomas Hunt Morgan, (F), S. B., Ky. State Coll., 1886, Bruce Fellow, 1890-91.—Prof. of Biology, Bryn Mawr.

Augustus Taber Murray, (F), A.B., Haverford, 1885, Prof., Earlham Coll., 1888-91, and Colorado Coll., 1891-92.—Prof. of Greek, Stanford Univ.

Wyatt William Randall, A. B., St. John's, 1884, Assistant, 1890-93, Associate, 1893-98.—Science Master, Tome Inst.

George Mann Richardson, (F), A. C., Lehigh, 1886, Instructor, Lehigh, 1890-91.—Prof. of Organic Chemistry, Stanford.

Joseph Samuel Shefloe, (F), A. B., Luther, 1885.—Prof. of Romance Lang. and Librarian, Woman's Coll., Balt.

Robert Benson Steele, (F), A. B., Univ. of Wis., 1883, Prof., St. Olaf Coll., 1890-91.—Prof. of Latin, Illinois Wesleyan.

Andrew Stephenson, A. B., De Pauw, 1882, Assoc. Prof., Wesleyan, 1890-94.—Prof. of History, De Pauw Univ.

Frederick Jackson Turner, A. B., Univ. of Wis., 1884.—Prof. of American History, Univ. of Wis.

John Martin Vincent, A. B., Oberlin, 1883, Instructor and Associate, 1890-95.—Assoc. Prof. of History.

Shozaburo Watase, (F), S. B., Sapporo Agric. Coll., 1884, Bruce Fellow, 1889-90.—Lecturer and Assistant, Clark Univ., 1890-92, Asst. Prof., Univ. of Chicago, 1892-99.—Prof. of Cellular Biology, Univ. of Tokyo.

James Albert Woodburn, (F), A. B., Indiana Univ., 1876.—Prof. of American History, Indiana Univ. (33)

1891.

Alfred Bagby, Jr., A. B., Richmond, 1885, Adjunct Prof. of Greek, S. C. Univ., 1891-93.—Atty. at Law, Balt.

James William Black, A. B., 1888, Acting Prof., Georgetown Coll., Ky., 1891-92, Assoc. Prof., Oberlin, 1892-94.—Prof. of History, etc., Colby Univ.

Charles Pliny Brigham, A. B., 1888.—Greenport, Long Island.

Charles Edward Coates, Jr., A. B., 1887, Prof., St. John's, Md., 1891-93.—Prof. of Chemistry, La. State Univ.

Edwin Grant Conklin, (F), S. B., Ohio Wesleyan, 1885, Prof., Ohio Wesleyan, 1891-94, and Northwestern, 1894-95.—Prof. of Compar. Embryol., Univ. of Pa.

Paul Joseph Dashiell, A. B., 1887, Instructor, Lehigh, 1889-90, 1891-92.—Prof. of Chemistry, U. S. Naval Academy.

Hermann Louis Ebeling, (F), A. B., 1882, Prof. of Greek, Miami Univ., 1891-99.—Trenton, N. J.

William Snyder Eichelberger, (F), A. B., 1886, Instructor in Mathematics, etc., Wesleyan Univ., 1891-96.—Prof. of Mathematics, U. S. Navy, Washington.

Thomas Perrin Harrison, (F), S. C. Military Acad., 1886, Assoc. Prof., Clemson Agric. Coll., 1891-95—Prof. of English, Davidson Coll.

Walter Jones, A. B., 1888, Acting Prof., Wittenberg Coll., 1891-92, Instructor and Prof., Purdue Univ., 1892-95.—Associate in Physiological Chemistry.

Henry Parker Manning, (F), A. B., Brown, 1883.—Asst. Prof. of Pure Mathematics, Brown Univ.

George Frederick Metzler, A. B., Albert Coll., 1889, Instructor, Univ. of Mich., 1892-93, and Queen's Univ., Ont., 1895-96.

William McCracken Milroy, A. B., Geneva, 1887.—Prof. of Latin, Geneva Coll.

John Leverett Moore, (F), A. B., Princeton, 1881, Tutor, Princeton, 1882-85, Instructor, 1888-89.—Prof. of Greek and Latin, Vassar.

Wilfred Pirt Mustard, (F), A. B., Toronto, 1886, Prof., Colorado Coll., 1891-93.—Prof. of Latin, Haverford Coll.

Barker Newhall, (F), A. B., Haverford, 1887, Instructor, Brown Univ., 1892-95, and Bates Coll. (Me.), 1895-96.—Prof. of Greek, Kenyon Coll.

George Petrie, A. M., Univ. of Virginia, 1887.—Prof. of History, Alabama Polytechnic Inst.

Edward Bennett Rosa, (F), S. B., Wesleyan, 1886.—Prof. of Physics, Wesleyan.

Edward Alsworth Ross, A. B., Coe Coll., 1886, Prof., Indiana Univ., 1891-92, Assoc. Prof., Cornell, 1892-93, Prof., Stanford Univ., 1893-1900.—Prof. of Economics, Univ. of Neb.

Charles Edward Saunders, (F), A. B., Toronto, 1888, Prof., Central Univ., Ky., 1891-93.—Ottawa, Canada.

Sidney Sherwood, A. B., Princeton, 1879, Instructor, Univ. of Pa., 1891-92, Assoc., 1892-95.—Assoc. Prof. of Polit. Economy.

Moses Stephen Slaughter, (F), A. B., Indiana Asbury, 1883, Instructor, Bryn Mawr, 1887-88, Prof., Iowa Coll., 1889-96.—Prof. of Latin, Univ. of Wis.

Bernard Christian Steiner, (F), A. B., Yale, 1888, LL. B., Univ. of Md., 1894, Instructor, Williams, 1891-92, Prof and Dean, Balt. Univ. School of Law, 1897-1900.—Librarian, Pratt Library, Balt.; Dean and Prof., Balt. Law School; Associate in History.

William Howe Tolman, A. B., Brown, 1882, General Agent, Poor Assoc., N. Y., 1894-98.—Sec., League for Social Service, N. Y.

Stephen Beauregard Weeks, A. B., Univ. of N. C., 1886, Prof., Trinity, N. C., 1891-93.—Editor, U. S. Bureau of Education.

John White, Jr., (F), A. B., 1888, Assistant, Cornell, 1891-93.—Prof. of Gen. and Anal. Chemistry, Univ. of Neb.

Westel Woodbury Willoughby, (F), A. B., 1888, Acting Asst. Prof., Stanford, 1894-95, Reader and Assoc., 1894-99.—Assoc. Prof. of Political Science.

Arthur Burnham Woodford, Ph. B., Yale, 1881, Instructor, Univ. of Pa., 1891-92, late Prof., Coll. of Social Economics, New York, and Lecturer, New York Univ.—Instructor, High School, New Haven. (28)

1892.

Eugene Thomas Allen, A.B., Amherst, 1887, Acting Prof., Univ. of Colo., 1892-93, Assistant, Harvard, 1894-95.—Prof. of Chemistry, Mo. School of Mines.

William Wilson Baden, (F), A. B., 1881, LL. B., Univ. of Md., 1883, Prof., Southwestern Univ., 1892-93, and Central Univ., 1893-96.—Prof. of Latin, Univ. of Idaho.

Robert Payne Bigelow, (F), S.B., Harvard, 1887, Bruce Fellow, 1891-93.—Instructor in Biology and Librarian, Mass. Inst. of Tech.; Editor in Chief, *American Naturalist.*

Edwin Winfield Bowen, A. B., Randolph-Macon, 1887, Asst. Prof., Univ. of Mo., 1892-93.—Prof. of Latin, Randolph-Macon.

Immanuel Moses Casanowicz.—Aid, Division of Historic Archæology, U. S. National Museum, Washington.

Starr Willard Cutting, A. B., Williams, 1887.—Prof. of German Lit., Univ. of Chicago.

Rev. William Levering Devries, (F), A.B., 1888, S. T. B., Gen. Theol. Sem., N. Y., 1894.—Clergyman, Washington, D. C.

Albert Bernhardt Faust, (F), A. B., 1889, Instructor, 1894-96.—Assoc. Prof. of German, Wesleyan Univ.

George Wilton Field, A. B., Brown, 1887, Assoc. Prof., Brown Univ., 1893-96.—Prof. of Zoology, R. I. Agric. Coll.; Lecturer in Economic Biol., Mass. Inst. of Tech.

Joseph Elliott Gilpin, A. B., 1889.—Assoc. in Chemistry.

John Leslie Hall, (F).—Prof. of English and History, William and Mary Coll.

William Asbury Harris, (F), A. M., Richmond, 1886, Acting Prof., Ripon, 1892-93.—Prof. of Greek, Baylor Univ.

Frederick Clemson Howe, A.B., Allegheny, 1889.—Atty. at Law, Cleveland; Lecturer, Western Reserve Univ.

William Isaac Hull, A. B., 1889.—Prof. of History and Economics, Swarthmore Coll.

Harry Clary Jones, (F), A.B., 1889.—Assoc. Prof. of Physical Chemistry.

James Lawrence Kellogg, (F), S. B., Olivet, 1888, Prof., Olivet Coll., 1892-99.—Asst. Prof. of Biol., Williams Coll.

Charles Rollin Keyes, (F), S. B., Iowa State Univ., 1887, late State Geologist of Missouri.—Mining Expert, Des Moines.

Elmer Peter Kohler, (F), A. B., Muhlenberg, 1886.—Assoc. Prof. of Chemistry, Bryn Mawr.

*Paul Erasmus Lauer, (F), A.B., Adelbert, 1885, Asst. Supt. of Schools, Cleveland, 1882-93. **February* 20, 1893.

Edwin Seelye Lewis, (F), A. B., Wabash, 1888.—Prof. of Romance Lang., Princeton.

David Judson Lingle, (F), S. B., Chicago, 1885.—Instructor in Physiology, Univ. of Chicago.

Alvin Frank Linn, (F), A.B., Wittenberg, 1884.—Prof. of Chemistry and Mineralogy, Wittenberg Coll.

James Alexander Lyman, A. B., Beloit, 1888, Docent, Univ. of Chicago, 1892-93.—Instructor in Chemistry, Portland Academy, Oregon.

John Hanson Thomas Main, (F), A. B., Moore's Hill, 1880.—Prof. of Greek and Acting Prest. (1900-01), Iowa Coll.

Frank Jewett Mather, Jr., (F), A. B., Williams, 1889, Instructor in English, Williams, 1892-1900.—Asst. Editor, *Evening Post*, N. Y.

Michael Andrew Mikkelsen, (F), A. B., Luther, 1886.—Montclair, N. J.

Robert Milton Parks, Jr., A. B., Indiana Univ., 1879, Prof., Furman Univ., 1892-93, Prof. of Chemistry, Central Univ., 1893-1900.—Bedford, Ind.

Charles Lane Poor, (F), S. B., Coll. of the City of New York, 1886, Instructor, Associate, and Assoc. Prof. of Astronomy, 1891-99.—New York.

John Dyneley Prince, (F), A.B., Columbia, 1888.—Prof. of Semitic Lang., N.Y. Univ.

John Cunningham Robertson, (F), A. M., Univ. of Va., 1885.—Prof. of Greek, St. Stephen's Coll., N. Y.

*Charles Hunter Ross, (F), S. B., Ala. Agric., 1886, Prof., Southwestern Univ., 1890-91, Prof. of Modern Lang., Ala. Polytechnic Inst., 1892-1900. **February* 23, 1900.

Harry Luman Russell, S. B., Univ. of Wis., 1888.—Pro. f of Bacteriology, Univ. of Wis.

William Amasa Scott, A. B., Univ. of Rochester, 1886.—Prof. of Economic History and Theory, Univ. of Wis.

Will Bush Shober, A. B., St. John's, 1885.—Instructor in Chemistry, Lehigh.

Martin Bell Stubbs, A. B., Haverford, 1888.—Instructor in Chemistry, Haverford.

Harry Maas Ullmann, A.B., 1889, Honorary Fellow, Univ. of Chicago, 1892-93.—Instructor in Chemistry, Lehigh.

Bert John Vos, (F), A. B., Univ. of Mich., 1888, Instructor, Univ. of Chicago, 1892-93.—Assoc. Prof. of German. (37)

1893.

Henry Harold Ballard, A. B., 1888, Instructor in Chemistry, Rose Polytech. Inst., 1893–96.—Science Master, Country School for Boys, Balt.

Florence Bascom, S. B., Univ. of Wis., 1884, Instructor, Ohio State Univ., 1893–95.—Associate in Geology, Bryn Mawr.

Jasper Luther Bceson, A. B., Univ. of Ala., 1889.—Prof. of Chemistry and Physics, Ga. Normal and Industrial Coll.

Alexander Mitchell Carroll, (F), A. M., Richmond, 1888, Prof., Richmond Coll., 1895–97, Reader, 1898–99.—Prof. of Classical Philology, Columbian Univ.

Andrew Fuller Craven, LL. B., Univ. of Chicago, 1870, A. B., Harvard, 1889.—Prof. of Economics, Columbian Univ.

John Bascom Crenshaw, A. M., Randolph-Macon, 1881, Instructor in Physical Culture, 1893–99.—Teacher, Balt.; Fellow by Courtesy.

Ulysses Sherman Grant, (F), S. B., Univ. of Minn., 1888.—Prof. of Geology, Northwestern Univ.

David I. Green, A. B., Alfred Univ., 1885.—Supt., Organized Charities, Hartford.

William Richard Grey, A. B., Davidson, 1884.—Prof. of Latin and French, Davidson Coll.

George Henry Haynes, A. B., Amherst, 1887.—Prof. of History and Political Science, Worcester Polytech. Inst.

Charles Downer Hazen, A. B., Dartmouth, 1889.—Prof. of History, Smith Coll.

Frank Irving Herriott, A. B., Iowa, 1890, late Prof. of Economics, Iowa Coll.—Des Moines.

David Hull Holmes, (F), A. B., Iowa Wesleyan, 1885, Acting Prof., Allegheny, 1893–94, Prof., Univ. of Kansas, 1896–97.—Classical Instructor, High School, Brooklyn.

Arthur John Hopkins, (F), A. B., Amherst, 1885, Prof., Westminster Coll, 1893–94.—Asst. Prof. of Chemistry, Amherst.

Theodore Hough, (F), A. B., 1886, Instructor, McDonogh School, 1886–89.—Asst. Prof. of Biology, Mass. Inst. of Tech.

James Alton James, (F), B. L., Univ. of Wis., 1888, Prof., Cornell Coll., 1893–96.—Prof. of European Hist., Northwestern.

Henry Read McIlwaine, A. B., Hampden-Sidney, 1884.—Prof. of English and History, Hampden-Sidney Coll.

Louis Emil Menger, (F), A. B., Miss. Coll., 1888, Instructor and Assoc., 1893–97.—Prof. of Romance Philol., Bryn Mawr.

Colyer Meriwether, A. B., 1886, Instructor in English, etc., Washington High School.

*Lucius Salisbury Merriam, (F), S. B., Vanderbilt, 1889, Instructor in Political Econ., Cornell, 1893. **November* 16, 1893.

Maynard Mayo Metcalf, (F), A. B., Oberlin, 1889, Bruce Fellow, 1893.—Prof. of Biology, Woman's Coll., Balt.

Daniel Alexander Murray, (F), A. B., Dalhousie, 1884, Assoc. Prof., New York Univ., 1890–94.—Instructor in Mathematics, Cornell.

William Peters Reeves, A. B., 1889, Assistant, Union Coll., 1895–97, Prof., Iowa Univ., 1897–1900.—Prof. of English, Kenyon Coll.

Charles Alphonso Smith, A. B., Davidson, 1884.—Prof. of English, La. State Univ.

George Owen Squier, (F), U. S. Mil. Acad., 1887.—Captain, U. S. A.; U. S. Signal Service, Washington.

John Nesbit Swan, A. B., Westminster Coll., Pa., 1886.—Prof. of Chemistry, Monmouth Coll.

Frederick Tupper, Jr., (F), A. B., Charleston, 1890, Prof., Wells Coll., 1893–94.—Prof. of Rhetoric and English Lit., Univ. of Vt.

Frank Alfred Wolff, Jr., (F), A. B., 1890.—Chemist, Dept. of Agric., Washington.

(28)

1894.

James Nesbit Anderson, A. M., Univ. of Va., 1887, Prof. of Latin and Greek, Univ. of Oklahoma, 1894–96.—Williamston, S. C.

John Spencer Bassett, (F), A. B., Trinity (N. C.), 1888.—Prof. of History, Trinity.

William Julian Albert Bliss, A. B., Harvard, 1888, Assistant, 1890–91, 1895–97, Lecturer, 1894–95, Instructor, Woman's Coll., Balt., 1894–95.—Associate in Physics.

James Douglas Bruce, A. M., Univ. of Va., 1883, Prof., Centre Coll., Ky., 1890–91, Assoc. Prof., Bryn Mawr, 1891–1900.—Prof. of Eng., Univ. of Tenn.

James Dowden Bruner, A. B., Franklin Coll., 1888, Prof., Univ. of Ill., 1893–95.—Asst. Prof. of Romance Lang., Chicago.

John Emery Bucher, A. C., Lehigh, 1891, Instructor, Tufts Coll., 1894–97, Assoc. Prof., R. I. Agric. Coll., 1897–1900.—Assoc. Prof. of Chemistry, Brown.

Frank Kenneth Cameron, A. B., 1891, Fellow and Asst., Cornell, 1894-95, 1897-98, Asst. Prof., Catholic Univ., 1895-97.—Chemist, Agric. Dept., Washington.

William Embert Chamberlin, A. B., Oberlin, 1887, Instructor, Wabash Coll., 1894-95.—Chemist, New York.

Abraham Cohen, (F), A. B., 1891.—Associate in Mathematics.

Louis Leaming Forman, A. M., Univ. of Pa., 1890.—Instructor in Greek, Cornell.

Edward Curtis Franklin, S. B., Univ. of Kan., 1888.—Prof. of Physical Chemistry, Univ. of Kansas.

Joseph Hendren Gorrell, A.B., Washington and Lee, 1888.—Prof. of Modern Lang., Wake Forest Coll.

George Perry Grimsley, A. B., Ohio State Univ., 1890.—Prof. of Geology, etc., Washburn Coll.

Ross Granville Harrison, (F), A. B., 1889, M. D., Bonn, 1899, Bruce Fellow, 1894, Lecturer, Bryn Mawr, 1894-95, Instructor and Associate, 1896-99.—Assoc. Prof. of Anatomy.

Robert Nelson Hartman, A. B., Pa. Coll., 1891, Instructor, Tufts Coll., 1896-99.—Prof. of Chemistry, Colo. School of Mines.

Jacob H. Hollander, (F), A. B., 1891, Instructor and Associate, 1894-99.—Assoc. Prof. of Finance; Treasurer of Porto Rico.

Lorrain Sherman Hulburt, A. B., Univ. of Wis., 1883, Prof., Univ. of S. Dakota, 1887-91, Fellow, Clark Univ., 1891-92, Instructor and Associate, 1892-97.—Collegiate Prof. of Mathematics.

Masanobu Ishizaka, Ph. B., Albion Coll., 1891.—Lecturer in History and Economics, Mie-Ji-Gaku-In, Tokio.

Thomas Atkinson Jenkins, A. B., Swarthmore, 1887, Prof., Vanderbilt, 1895-1900.—Prof. of French, Swarthmore.

Christopher Johnston, (F), Univ. of Va. (B. Litt., 1876, A. B., 1878, A. M., 1879), M. D., Univ. of Md., 1880, Instructor and Associate, 1891-99.—Assoc. Prof. of Oriental History and Archæology.

Emory Bair Lease, (F), A. B., Ohio Wesleyan, 1885, Prof., Allegheny, 1894-96, Asst. Prof., Univ. of Mich., 1896-99, Instructor, Wesleyan, 1899-1901.—Instructor in Latin, Coll. of City of N. Y.

Arthur Stanley Mackenzie, (F), A. B., Dalhousie, 1885.—Prof. of Physics, Bryn Mawr.

*Edward Payson Manning, (F), A. B., Brown, 1889, Instructor, St. Lawrence Univ., 1894-95. **February* 15, 1897.

Charles Carroll Marden, A. B., 1889, Instructor, Univ. of Mich., 1890-91, Instructor and Associate, 1894-99.—Assoc. Prof. of Spanish.

Edward Bennett Mathews, (F), A. B., Colby, 1891, Instructor and Associate, 1894-99.—Assoc. Prof. of Mineralogy.

Philip Randle Moale, A. B., 1889.—Chemist, Asheville, N. C.

Constance Pessels, B. L., Univ. of Texas, 1886, late Instructor in English, Univ. of Texas.—Instructor, High School, San Antonio.

Jesse Siddall Reeves, S. B., Amherst, 1891.—Richmond, Ind.

Arthur Percy Saunders, (F), A. B., Toronto, 1890, Instructor, Univ. of Wis., 1894-96, Asst., McGill Univ., 1898-99, and Cornell, 1899-1900.—Instructor in Chemistry, Hamilton Coll.

Robert Lincoln Slagle, A. B., Lafayette, 1887.—President, S. Dakota School of Mines.

Rev. Daniel Gurden Stevens, Jr., (F), A. B., 1891, B. D., Crozer Theol. Sem., 1897.—Clergyman, Bryn Mawr, Pa.

Frederick Henry Sykes, (F), A. B., Toronto, 1885, Prof., Western Univ. (Ont.), 1895-97.—University Extension Lecturer, Phila.; Lecturer, 1900-1901.

Milo Scott Walker, Ph. B., Wooster, 1889.—Instructor in Chemistry, Racine (Wis.) High School.

George Francis Weida, (F), Prof., Blackburn Univ., 1894-96, and Baker Univ., 1896-97.—Prof. of Pure Chemistry, Kansas Agric. Coll. (34)

1895.

Rufus Mather Bagg, A. B., Amherst, 1891, Assistant, 1895-97, Acting Prof. of Geology, Colorado Coll., 1898-99.—Science Instructor, Colorado Springs.

Thomas Stockham Baker, (F), A. B., 1891.—Lecturer in German; Prof. of Modern Lang., Tome Inst.

James Curtis Ballagh, A. B., 1894.—Associate in History.

Daniel Base, A. B., 1891.—Assoc. Prof. of Chemistry, Md. Coll. of Pharmacy.

Henry Marvin Belden, A. B., Trinity (Conn.), 1888.—Asst. Prof. of English, Univ. of Missouri.

Arthur Fisher Bentley, (F), A. B., 1892, late Docent, Univ. of Chicago.—Journalist, Chicago.

Samuel Walker Beyer, (F), S. B., Iowa Agric., 1889.—Assoc. Prof. of Geology, Iowa Agric. Coll.

*William Bromwell, A B., 1888, Instructor in Chemistry, Pratt Inst., Brooklyn, 1896–98. **September* 30, 1898.

Clarence Griffin Child, (F), A. B., Trinity (Conn.), 1886.—Asst. Editor, Worcester's Dictionary; Instructor in English, Univ. of Pa.

Fonger De Haan, (F), Assistant, Instructor, and Associate, 1894–97.—Associate in Spanish, Bryn Mawr.

Charles Sumner Estes, A. B., Colby, 1884, Prof., Furman Univ., 1896–98.—Instructor in Latin, High School, Brooklyn.

Henry Fay, A. B., Lafayette, 1889.—Asst. Prof. of Chemistry, Mass. Inst. of Tech.

Henry Stewart Gane, (F), A. B., Amherst, 1891.—U. S. Geol. Survey, Washington.

George William Gray, A. B., 1890.—Chemist, Standard Oil Company, Whiting, Ind.

John Joseph Griffin, A. B., Ottawa Univ., 1881.—Prof. of Chemistry, Catholic Univ.

William August Haussmann, (F), A. B., 1892.—Prof. of German, Central High School, Phila.

John Haynes, A. B., Williams, 1888, Prof. of History, Norwich Free Academy, 1895–99. —Junior Master, Latin School, Boston.

Samuel Rivers Hendren, A. B., Washington and Lee, 1892.—Staunton, Va.

Howard Haines Higbee, A. B., Yale, 1884, Assistant, Tufts Coll., 1895–96, Assistant in Chemistry, Hamilton Coll., 1896–1900.

Rockwell Dennis Hunt, Ph. B., Napa Coll., 1890.—Prof. of History, etc., Univ. of the Pacific.

Joseph Rufus Hunter, A. B., Wake Forest, 1885.—Prof. of Chemistry, Richmond Coll.

George Wesley Johnston, (F), A. B., Toronto, 1886, Acting Asst. Prof., Cornell, 1895–96.—Lecturer in Latin, Univ. of Toronto.

Thomas Franklin Kane, (F), A. B., De Pauw, 1888, Prof., Olivet Coll., 1895–1900. —Prof. of Latin, Univ. of Washington.

William Jay Karslake, S. B., Lafayette, 1891, Instructor, Dalhousie Univ., 1895–96.—Prof. of Chemistry, Butler Univ.

George Charles Keidel, (F), A. B., 1889.—Associate in Romance Lang.

William Hamilton Kirk, (F), A. B., 1893, Instructor, Vanderbilt, 1895–1900.—Classical Instructor, Rutgers.

John Holladay Latane, A. B., 1892, Lecturer, 1898–99.—Prof. of History, etc., Randolph-Macon Woman's Coll., Lynchburg, Va.

Exum Percival Lewis, S. B., Columbian, 1888.—Asst. Prof. of Physics, Univ. of Cal.

William Henry Maltbie, (F), A. B., Ohio Wesleyan, 1890.—Prof. of Mathematics, Woman's Coll., Balt.

Solomon Reid McKee, A. B., Davidson, 1888, Prof., Ogden Coll., 1895–99.—Prof. of Chem., Southwestern Presb. Univ., Tenn.

Thomas Francis Moran, (F), A. B., Univ. of Mich., 1887.—Prof. of History, etc., Purdue Univ.

Louis Trenchard More, (F), Ph. B., Washington Univ., 1892, Instructor, Worcester Polytech., 1895–96, Adjunct Prof., Univ. of Neb., 1896–1900. — Prof. of Physics, Univ. of Cincinnati.

Anthony Moultrie Muckenfuss, A. B., Wofford, 1889.—Prof. of Chemistry, Millsaps Coll., Miss.

Lyman Churchill Newell, Ph. B., Brown, 1890.—Instructor in Chemistry, Normal School, Lowell, Mass.

James Fluck Norris, (F), A. B., 1892.—Asst. Prof. of Chemistry, Mass. Inst. of Tech.

Edwin Fitch Northrup, (F), A. B., Amherst, 1891, Assoc. Prof. of Physics, Univ. of Texas, 1896–97.—Baltimore.

Robert Somerville Radford, Univ. of Va. (B. Ph., 1889, Ph. D., 1891, A. M., 1892), Prof., Washburn Coll., 1897–99.—Associate in Latin Lit., Bryn Mawr.

René de Saussure, École Polytechnique, Paris, Prof. of Mathematics, Catholic Univ., 1895–99.—Switzerland.

Thomas Edward Shields, A. M., St. Mary's Sem., 1892.—Instructor in Biology, St. Paul's Theol. Sem., Minn.

John Archer Silver, A. B., Princeton, 1886. —Prof. of History, Hobart Coll.

Alfred William Stratton, (F), A. B., Toronto, 1887, Asst. and Associate, Univ. of Chicago, 1895–99.—Principal and Prof. of Sanskrit, Oriental Coll. of Lahore, India.

William Stuart Symington, Jr., A. B., 1891, Instructor and Assoc. Prof., Stanford, 1893–95.—Prof. of Romance Lang., Amherst.

Masayoshi Takaki, S. B., Syracuse, 1891.—Lecturer on Sociology, Univ. of Tokyo.

Robert Richardson Tatnall, S. B., Haverford, 1890.—Instructor in Physics, Univ. of Pa.

Thaddeus Peter Thomas, B. P., Univ. of Tenn., 1885.—Prof. of History, Woman's Coll., Balt.

James Waddell Tupper, A. B., Dalhousie, 1891, Prof., Western Univ., Ont., 1897-1900.—Associate in English, Bryn Mawr.

William Achenbach Wetzel, A. B., Lafayette, 1891.—Principal, High School, Trenton, N. J. (47)

1896.

Benjamin William Arnold, Jr., A. B., Randolph-Macon, 1891, Acting Prof., Emory Coll., 1899-1900.—Prof. of History, etc., Normal School, Blacksburg, Va.

George Melville Bolling, (F), A. B., Loyola, 1891.—Assoc. Prof. of Greek, Catholic Univ.

Ferdinand Bonnotte.—Prof. of Modern Lang., Western Md. Coll.

Alfred Cookman Bryan, A. B., 1892.—Instructor in Economics, Washington High School.

Arthur Douglas Chambers, (F), A. B., Toronto, 1892.—Chemist, Ashburn, Mo.

Julian Alvin Carroll Chandler, A. B., William and Mary, 1891.—Prof. of History and English, Richmond Coll.

James Wilkinson Chapman, Jr., A. B., Washington (Md.), 1892, LL. B., Univ. of Md., 1897.—Atty. at Law, Balt.

Henry Scofield Cooley, S. B., New York Univ., 1891.—Instructor in History, High School, Ogden, Utah.

Henry Rushton Fairclough, (F), A. B., Toronto, 1883, Lecturer, Toronto, 1887-93.—Assoc. Prof. of Greek and Latin, Stanford.

Edson Fessenden Gallaudet, A. B., Yale, 1893, Instructor in Physics, Yale, 1896-1900.—Engineer, Cramp Shipbuilding Co., Phila.

William Francis Gallaway, (F), A. B., 1891.—Princ., Chatham Acad., Savannah, Ga.

Frederick Stearns Hollis, S. B., Mass. Inst. of Tech, 1890.—Instructor in Chemistry, Yall.

Reid Hunt, (F), A. B., 1891, M. D., Phys. and Surg. (Balt.), 1896, Tutor in Physiology, Columbia, 1896-98.—Assoc. Prof. of Pharmacology.

Charles William Leverett Johnson, (F), A. B., 1891. Instructor in Greek, Yale, 1897-1900.—Balt.

Oliver Martin Johnston, (F), A. B., Miss. Coll., 1890, Lecturer, Bryn Mawr, 1896-97.—Asst. Prof. of Romanic Lang, Stanford Univ.

Frederick Robertson Jones, A. B., Western Md, 1892, Instructor, Western Md., 1896-97.—Asst. Prof. of Sociology, Union Coll.

James Pinckney Kinard, S. C. Mil. Acad., 1886.—Prof. of English, Winthrop Coll.

Henry McElderry Knower, (F), A. B., 1890, Bruce Fellow, 1895-96, Instructor, Williams, 1896-97.—Instructor in Anatomy.

Gordon Jennings Laing, (F), A. B., Toronto, 1891, Fellow, Amer. School of Classical Studies, Rome, 1896-97, Reader and Lecturer, Bryn Mawr, 1897-99.—Instructor in Latin, Univ. of Chicago.

George Lefevre, (F), A. B., 1891, Bruce Fellow, 1895-97, Assistant, 1897-98.—Prof. of Zoölogy, Univ. of Missouri.

Ebenezer Mackay, (F), A. B., Dalhousie, 1886.—Prof. of Chemistry and Mineralogy, Dalhousie.

Raphael Monroe McKenzie, S. B., New York Univ., 1890, Instructor in Chemistry, Univ. of Cincinnati, 1898-99.

Henry Ludwell Moore, (F), A. B., Randolph-Macon, 1892, Instructor, 1896-97.—Prof. of Economics, Smith Coll.

Franklin Lafayette Riley, (F), A. B., Miss. Coll., 1889, Pres., Hillman Coll., 1896-97.—Prof. of History, Univ. of Miss.

Brantz Mayer Roszel, (F), A. B., 1889.—Instructor in Physics, Washington High School.

Herbert Armistead Sayre, B. E., Univ. of Ala., 1893, Prof., Ursinus Coll., 1896-98.—Prof. of Physics, etc., Univ. of Ala.

Frederick George Gottlob Schmidt, (F), Acting Prof., Cornell Coll., 1896-97.—Prof. of Modern Lang., Univ. of Oregon.

Thomas Stanley Simonds, A. B., Harvard, 1884, Prof., Hobart Coll., 1897-99.—Prof. of Latin, Trinity Coll., Conn.

George Otis Smith, (F), A. B, Colby, 1893.—U. S. Geol. Survey, Washington.

Michael Druck Sohon, Lehigh (A. C., 1890, M.S., 1894).—Instructor in Organic Chemistry, Lehigh.

Francis Edgar Sparks, A.B., 1893.—Archivist, Md. Historical Society.

Frederick William Speirs, S.B., Worcester Polytech., 1888, Prof., Drexel Inst., 1893-98.—Prof. of Economics, Manual Training School, Phila.

Arthur Coe Spencer, S. B., Case School, 1892.—U. S. Geol. Survey, Washington.

Thomas Hardy Taliaferro, (F), C. E., Va. Mil. Inst., 1890.—Instructor in Mathematics, Pa. State Coll.

John Thorne, A. B., Denison, 1885.—Balt.

Harry Langford Wilson, (F), A.B., Queen's Univ. (Ont.), 1887.—Associate in Latin. (36)

1897.

Gellert Alleman, S. B., Pennsylvania Coll., 1893, Instructor, Univ. of Maine, 1897-98. —Instructor in Chemistry, Washington Univ., St. Louis.

Edward Cooke Armstrong, (F), A. B., Randolph-Macon, 1890, Instructor and Associate, 1897-1901. — Assoc. Prof. of French.

Byron Briggs Brackett, A. B., Syracuse, 1890, Instructor, Union Coll., 1897-98, Instructor in Physics, Washington High School, 1898-1900.—Baltimore.

James Morton Callahan, (F), A. B., Indiana Univ., 1894, Lecturer, Hamilton Coll., 1897-98, Lecturer, 1899-1900.—Washington, D. C.

Hubert Lyman Clark, (F), A. B., Amherst, 1892, Instructor, Amherst, 1897-99.—Prof. of Biology, Olivet Coll.

Frank Hollinger Cluts, (F), A. B., Midland, 1892.—Instructor, Midland Coll.

*Franklin Story Conant, (F), A. B., Williams, 1893, Bruce Fellow, 1897. **September* 13, 1897.

William Schofield Day, A. B., Columbia, 1884.—Tutor in Physics, Columbia.

Noah Ernest Dorsey, (F), A. B., 1893.—Associate in Physics.

Pelham Edgar, (F), A. B., Toronto, 1892.—Prof. of Modern Lang., Victoria Univ.

Samuel Eagle Forman, A. B., Dickinson, 1887.—Lecturer, 1900-01; Prof. of English, etc., Balt. City Coll.

William Ritchie Fraser, A. B., Dalhousie, 1882.—Classical Instructor, Irvington, N. Y.

Edwin Luther Green, (F), A. B., Washington and Lee, 1892, Prof., Central Univ., Ky., 1898-99, Acting Prof., Iowa Coll., 1899-1900.—Adjunct Prof. of Ancient Lang., S. Carolina Coll.

Arthur Sewall Haggett, (F), A. B., Bowdoin, 1893.—Instructor in Greek, Worcester Acad., Mass.

William Edwards Henderson, (F), A. B., Wooster, 1891, Prof., Ohio Univ., 1897-99. —Asst. Prof. of Anal. Chemistry, Ohio State Univ.

William Jackson Humphreys, (F), A. B., Washington and Lee, 1886.—Instructor in Physics, Univ. of Va.

Rev. Bartlett Burleigh James, A. B., Western Md., 1891.—Clergyman, Baltimore.

Duncan Starr Johnson, (F), S.B., Wesleyan, 1892, Bruce Fellow, 1897-98.—Associate in Botany.

Edwin Wexler Kennedy, A. B., Univ. of Tenn., 1880, Instructor, Woman's Coll., Balt., 1895-97.—Prof. of Economics and Associate in Latin, Peabody Normal Coll., Tenn.

Francis Plaisted King, (F), A. B., Colby, 1890, Asst. State Geologist of Georgia, 1893-96.—Saratoga Springs, N. Y.

Omera Floyd Long, (F), A. B., Ky. Wesleyan, 1890.—Instructor in Latin, Northwestern Univ.

William Tyler Mather, (F), A. B., Amherst, 1886, Assistant, 1897.—Assoc. Prof. of Physics, Univ. of Texas.

John McLaren McBryde, Jr., (F), A. B., Univ. of S. C., 1890.—Prof. of English, Hollins Inst., Va.

John Frederick Mohler, (F), A. B., Dickinson, 1887.—Prof. of Physics, Dickinson.

Charles Patrick Neill, A. B., Georgetown, 1891.—Assoc. Prof. of Economics, Catholic Univ.

Robert Stewart Norris, S. B., Univ. of Cal., 1892.—Instructor in Chemistry, Univ. of California.

Philip Ogden, A. B., Cornell, 1891, Instructor and Associate, 1897-1901. — Assoc. Prof. of French Literature.

Nathan Allen Pattillo, S. B., Southern Univ., 1887, Prof., Ala. Normal Coll., 1897-99.—Prof. of Mathematics, Randolph-Macon Woman's Coll., Lynchburg.

Alexander Pell, (F).—Prof. of Mathematics, Univ. of S. Dakota.

*Charles Dabney Ragland, (F), A. B., Randolph-Macon, 1889, Prof. of Chemistry, Randolph-Macon, 1897-1900. **October* 30, 1900.

Milton Reizenstein, A. B., 1894.—Asst. Agent, Baron Hirsch Foundation, N. Y.

Frank Roy Rutter, (F), A. B., 1894.—Dept. of Agriculture, Washington.

John Adams Scott, (F), A. B., Northwestern, 1891.—Assoc. Prof. of Greek, Northwestern Univ.

George Burbank Shattuck, (F), S. B., Amherst, 1892.—Associate in Geology.

George Shipley, A. B., Randolph-Macon, 1887. — English Master, Boys' Latin School; Asst. Editor, *The Baltimore American*.

Charles Peter Sigerfoos, S. B., Ohio State Univ., 1889, Asst. in Zoölogy, 1895-97.—Asst. Prof. of Biology, Univ. of Minn.

Enoch Walter Sikes, A. M., Wake Forest, 1891.—Prof. of Political Science and History, Wake Forest.

William Bull Stoddard, S. B., Univ. of Colo., 1894.—Instructor in Chemistry, Colo. School of Mines.

Hugo Paul Thieme, A. B., 1893, Asst. Prof., Earlham, 1897-98.—Instructor in French, Univ. of Mich.; Lecturer, 1900-1901.

George Washington Ward, A. B., Western Md., 1890.—Prof. of History, etc., Western Md. Coll.

Louis Napoleon Whealton, A. B., Western Md., 1892, LL. B., Univ. of Md., 1897.—Atty. at Law, N. Y.

Charles Francis Woods, Jr., A. B., 1891, Prof., Woman's Coll., Richmond, 1897-99, Acting Prof., Swarthmore, 1899-1900.—Acting Prof. of Modern Lang., Pennsylvania Coll. (42)

1898.

Cleveland Abbe, Jr., (F), A. B., Harvard, 1894, Prof., Western Md. Coll., 1898-99.—Prof. of Natural Sciences, Winthrop Coll.

Howard Bell Arbuckle, A. B., Hampden-Sidney, 1889.—Instructor in Sciences, Decatur, Ga.

Arthur Henry Baxter, A. B., 1894.—Instructor in French, Amherst.

Ernest Julius Becker, A. B., 1894.—Instructor in French and German, Richmond College.

Charles Hillman Brough, (F), A. B., Miss. Coll., 1894.—Prof. of Economics and History, Mississippi Coll.

Murray Peabody Brush, A. B., Princeton, 1894, Instructor, Ohio State Univ, 1898-99.—Instructor in Romance Lang.

Killis Campbell, (F), A. B., William and Mary, 1894.—Instructor in English, Univ. of Texas.

Charles Gilpin Cook, S. B., Haverford, 1892.—Science Instructor, Brooklyn, N. Y.

Frederick Henry Duryea Crane, A. B., Union, 1893.—Analytical Chemist, N. Y.

Gilman Arthur Drew, (F), S. B., Iowa Univ., 1890, Bruce Fellow, 1898, Asst., 1898-1900.—Prof. of Biology, Univ. of Maine.

William Alexander Eckels, A. B., Dickinson, 1883, Prof., Ripon Coll., 1891-93.—Prof. of Greek, Miami Univ.

John Eiesland, A. B., Univ. of S. Dak., 1891.—Prof. of Mathematics, Thiel Coll.

Charles Wilson Greene, (F), A. B., Stanford, 1892, Asst. Prof., Stanford, 1898-1900.—Prof. of Physiology, Univ. of Missouri.

James Graham Hardy, (F), A. B., Lafayette, 1894.—Instructor in Mathematics, Williams.

Lancelot Minor Harris, A. B., Washington and Lee, 1888, Instructor and Asst. Prof., Indiana Univ., 1894-98.—Prof. of English, Charleston Coll., S. C.

Caleb Notbohm Harrison, B. C. E., Univ. of Wis., 1882, Acting Prof. of Machine Design, Univ. of Wisconsin, 1899-1900.

Charles Hoeing, (F), A. B., Ky. State Coll., 1890.—Instructor in Latin, Univ. of Rochester.

William App Jones, (F), A. B., Wake Forest, 1893.—Analytical Chemist, N. Y.

Percy Lewis Kaye, A. B., Iowa Univ., 1895, Instructor, Iowa Univ., 1898-1900.—Instructor in History, Coe Coll., Iowa.

Samuel Shipman Kingsbury, A. B., Marietta, 1893.—Instructor in Greek, Princeton Preparatory School.

Guy Carleton Lee, (F), LL. B., Univ. of N. C., 1894, A. B. and LL. M., Dickinson, 1895.—Instructor in History.

Arthur Gray Leonard, A. B., Oberlin, 1889, Acting Prof., Univ. of Missouri, 1899-1900.—Asst. State Geologist, Des Moines, Iowa.

Charles Elwood Mendenhall, (F), S. B., Rose Polytech., 1894.—Instructor in Physics and Mathematics, Williams.

Samuel Alfred Mitchell, (F), A. M., Queen's Univ. (Ont.), 1894, Fellow, Univ. of Chicago, 1898-99.—Tutor in Astronomy, Columbia Univ.

Cleophas Cisney O'Harra, A. B., Carthage, 1891.—Prof. of Geology, etc., S. Dakota School of Mines.

Daniel Allen Penick, (F), A. B., Univ. of Texas, 1891.—Instructor in Greek and Latin, Univ. of Texas.

Thomas Dobbin Penniman, A. B., 1892.—Baltimore.

Charles William Peppler, (F), A. B., 1892.—Prof. of Greek, Emory Coll., Ga.

Ebenezer Emmet Reid, (F), A. M., Richmond, 1892.—Prof. of Chemistry, etc., Charleston Coll., S. C.

Edward Rhoads, S. B., Haverford, 1893, Instructor in Physics, Worcester Polytech., 1898-1900.

Garnett Ryland, A. M., Richmond, 1892, Instructor and Assoc. Prof., Univ. of Maine, 1898-1900.—Instructor in Chemistry, Washington Univ.

William Berney Saffold, (F), A. B., Univ. of Ala., 1887.—Prof. of Latin and Greek, Univ. of Ala.

Aristogeiton Marcus Soho.—Prof. of Greek and French, St. John's Coll., Md.

Charles William Waidner, (F), A. B., 1896, Asst., 1898–99.—Instructor in Physics, Williams.

Richard Henry Wilson, A. B., 1892, Instructor, 1898–99.—Prof. of Romance Lang., Univ. of Va.

Albert Francis Zahm, A. M., Notre Dame, 1885.—Assoc. Prof. of Mechanics, Catholic Univ. (36)

1899.

Thomas Sewell Adams, (F), A. B., 1896.—San Juan, Porto Rico.

John William Basore, (F), A. B., Hampden-Sidney, 1893, Prof. of Latin, Hampden-Sidney, 1899–1900.

Edward William Berger, Ph. B., Baldwin, 1894.—Prof. of Biology, Baldwin Univ.

William Noland Berkeley, S. B., St. John's, 1896.—Government Chemist, San Juan, Porto Rico.

Pierce Butler, (F), A. B., Tulane, 1892.—Instructor in English, Univ. of Texas.

Horace Greeley Byers, A. B. and S. B., Westminster (Pa.), 1895.—Prof. of Chemistry, Univ. of Washington.

Joseph Scudder Chamberlain, (F), S. B., Iowa Agric., 1890, Instructor in Chemistry, Oberlin, 1899–1901.

Francis Whittemore Cragin, S. B., Harvard, 1882.—Prof. of Geology, Colorado Coll.

George Vail Edwards, A. B, Hamilton, 1891.—Prof. of Latin, Olivet Coll

James Rees Ewing, A. B, Ohio Wesleyan, 1890.—Washington, D. C.

Oliver Lanard Fassig, S. B., Ohio State Univ., 1882.—Observer, U. S. Weather Bureau, Balt.; Instructor in Climatology.

George Stronach Fraps, (F), S. B., N. C. Agric., 1896.—Instructor in Chemistry, N. C. Agric. Coll.

Pierre Joseph Frein, (F), A. B., Williams, 1892.—Instructor in Romanic Languages, Stanford.

Leonidas Chalmers Glenn, (F), A. B., South Carolina Coll., 1891, Assoc. Prof. and Prof., S. C. Coll., 1899–1900.—Adjunct Prof. of Geology, Vanderbilt.

Caswell Grave, (F), S. B., Earlham, 1895.—Bruce Fellow in Biology.

Nathaniel Edward Griffin, A. B., 1894, Instructor, Iowa Univ., 1899–1900.—Prof. of English, Wells Coll., N. Y.

Karl Josef Grimm, (F).—Rayner Fellow.

Hollister Adelbert Hamilton, (F), A. B., Rochester, 1892, Lecturer, Bryn Mawr, 1899–1900.—Prof. of Greek, Elmira Coll.

Willis Boit Holmes, A. B., Harvard, 1896, Instructor, Mass. Inst. of Tech., 1899–1900.—Instructor in Chemistry, Univ. of Chicago.

George Oscar James, (F), A. B., 1895, Instructor, Univ. of Utah, 1896–97.—Lecturer in Mathematics, Columbian Univ.; Civil Service Examiner; Fellow by Courtesy.

James William Kern, Univ. of Va., 1881.—Fellow by Courtesy.

George Philip Krapp, A. B., Wittenberg, 1894.—Instructor in English, Teachers Coll., and Lecturer in Columbia Univ.

William Kurrelmeyer, (F), A. B., 1896, Prof., Franklin and Marshall, 1899–1900.—Asst. in German.

Alvin Fayette Lewis, A. B., Princeton, 1884.—Prof. of History, Univ. of Arkansas.

Joseph Francis Merrill, (F), S. B., Michigan, 1893.—Prof. of Physics, Univ. of Utah.

Alfred William Milden, (F), A. B., Toronto, 1888.—Prof. of Classics, Emory and Henry Coll., Va.

Walter Alexander Montgomery, A. B., 1892, Instructor, Univ. of Ark., 1899–1900.—Acting Prof. of Greek, Miss. Univ.

Rev. Daniel Esten Motley, A. B., Milligan, 1894.—Wilson, N. C.

Rokuro Nakaseko, Doshisha Univ., Tokyo, 1889.—University Fellow, Yale.

William Albert Nitze, (F), A. B., 1894.—Lecturer in Romance Lang, Columbia.

Frederick Albert Saunders, (F), A. B., Toronto, 1895.—Instructor in Physics, Haverford.

Laurence Frederick Schmeckebier, (F), A. B., 1896.—U. S. Geological Survey, Washington.

St. George Leakin Sioussat, A. B., 1896.—Instructor in History, Smith Coll.

Rev. Charles William Sommerville, A. B. and S. B., Hampden-Sidney, 1890.—Clergyman, Balt.; Fellow by Courtesy; Lecturer, 1900–1901.

Mervin Tubman Sudler, S. B., Md. Agric., 1894, M. D., Coll. of Phys. and Surg., (Balt.), 1901.—Instructor in Anatomy.

Morris Crater Sutphen, A. B., Princeton, 1890.—Instructor in Latin.

William Taylor Thom, A. B., Washington and Lee, 1869.—Baltimore.

Harold John Turner, A. B., 1892.—Prof. of Chemistry and Physics, Western Md. Coll.

Campbell Easter Waters, A. B., 1895.—Prof. of Chemistry, Conn. Agric. Coll.

Henry Skinner West, (F), A.B., 1893, Prof., Balt. City Coll., 1894-97 and 1900, Instructor in English, 1899-1900.—Principal, Western High School, Balt.

Francis Daniel Wilson, S. B., Va. Polytech., 1894, Asst., Tufts Coll., 1899-1900.—Instructor in Chemistry, Va. Polytechnic.

James Henry Curry Winston, A. B. and S. B., Hampden-Sidney, 1894.—Adjunct Prof. of Physical Science, Hampden-Sidney. (42)

1900.

Homer VanValkenburg Black, A. B., Univ. of Ga., 1896.—Asst. in Chemistry, Ga. School of Technology.

William Martin Blanchard, (F), A. B., Randolph-Macon, 1894.—Instructor in Chemistry, Rose Polytechnic Inst.

Hall Canter, A. B., Randolph-Macon, 1892.—Prof. of Chemistry, Randolph-Macon.

Charles Edward Caspari, (F), A. B., 1896.—Asst. in Organic Chemistry, Columbia.

Hardee Chambliss, Va. Military Inst., 1894.—Asst. in Chemistry, Coll. of Phys. and Surg., N. Y.

William Sidney Drewry, A. B., Univ. of Va., 1893.—Asst. Prof. of Hist., Mo. Univ.

James Edwin Duerden, Associate, Royal Coll. of Science, London, 1889.—Curator, Institute of Jamaica.

Luther Pfahler Eisenhart, (F), A. B., Pa. Coll., 1896.—Instructor in Mathematics, Princeton.

Herbert Baldwin Foster, (F), A. B., Harvard, 1895.—Acting Prof. of Greek, St. Stephen's Coll., N. Y.

William Linwood Foushee, (F), A. M., Wake Forest, 1894.—Acting Prof. of Latin, Mercer Univ.

Wightman Wells Garner, A. B., S. C. Coll., 1896.—Asst. in Chemistry, Tufts Coll.

Clyde Chew Glascock, (F), Univ. of Va., 1892.—Instructor in German, Yale.

Lawrence Edmonds Griffin, (F), A. B. and Ph. B., Hamline Univ., 1895.—Instructor in Biology, Adelbert Coll.

Rev. Adolph Guttmacher, A. B., Cincinnati, 1887.—Rabbi, Balt.

Sivert N. Hagen, (F), A. B., Luther, 1896.—Instructor in English, Iowa State Univ.

Joseph Crawdell Herrick, (F), A.B., Univ. of Va., 1896.—Instructor in Sciences, St. Joseph's Seminary, Yonkers, N. Y.

David Wilbur Horn, A. B., Dickinson, 1897.—Fellow by Courtesy.

William Bashford Huff, A. B., Wisconsin, 1889, A.M., Chicago, 1896.—Asst. in Physics.

*Julian Huguenin, (F), A. B., Charleston, 1895.—Acting Prof. of English, Univ. of La., 1900-1901. **February* 19, 1901.

Walter Hullihen, (F), A. B., Univ. of Va., 1896.—Fellow by Courtesy.

Robert Edmund Humphreys, A. B., Emory and Henry, 1889.—Chemist, Standard Oil Co., Whiting, Ind.

Charles Ranald McInnes, A. M., Queen's Univ. (Ont.), 1896.—Instructor in Mathematics, Queen's.

William Starr Myers, A. B., N. Carolina, 1897.—History Master, Country School, Balt.

John Charles Olsen, (F), A. B., Knox, 1890.—Asst. Prof. of Chem., Brooklyn Polytechnic Inst.

Austin McDowell Patterson, A. B., Princeton, 1897.—Instructor in Chemistry, Centre Coll., Ky.

Louis Maxwell Potts, A. B., Washington and Jefferson, 1896.—Baltimore.

George Lovic Pierce Radcliffe, A.B., 1897.—Instructor, High School, Cambridge, Md.

Albert Moore Reese, A. B., 1892.—Graduate Student.

Herbert Meredith Reese, (F), A. B., 1897.—Asst., Lick Observatory.

Rev. William Rosenau, A. B., Cincinnati, 1888.—Rabbi, Balt.

Richard Burton Rowe, (F), Ph. B., Union, 1896.—U. S. Geological Survey.

James Eustace Shaw, (F), A. B., 1896.—Instructor in Italian.

Ernest Ashton Smith, A.B., Ohio Wesleyan, 1888.—Prof. of Economics, Allegheny Coll.

Elisha Chisholm Walden, A. B., Ohio Wesleyan, 1892.—Bacteriologist, St. Louis.

Charles Clinton Weaver, (F), A. B., Trinity (N. C.), 1895.—President of Rutherford Coll., N. C. (35)

1901.

George Ernest Barnett, (F), A. B., Randolph-Macon, 1891.—Asst. in Economics.

Benjamin Palmer Caldwell, (F), Tulane (A. B., 1893, B. E., 1895, Ch. E., 1897).—Asst. Prof. of Chemistry, Tulane.

Rev. Arthur Henry Ewing, (F), A. B., Washington and Jefferson, 1887, Western Theol. Sem. (Pa.), 1890.—Missionary, Allahabad, India.

Norman Everett Gilbert, (F), A. B., Wesleyan, 1895. (4)

(Degrees will also be conferred at the close of the academic year in June.)

(553)

9. Doctors of Medicine.

(When the institution is not named, this university is to be understood. (F) indicates that the person has held a fellowship here.—*Died.)

1897.

Charles Russell Bardeen, A. B., Harvard, 1893.—Associate in Anatomy.

Thomas Richardson Brown, A. B., 1892.—Physician, Balt.; Chief of Med. Clinic, J. H. Disp; Assoc. Prof. of Clin. Med., Coll. of Phys. and Surg.

*Walter S. Davis, S. B., Amherst, 1893. **September* 27, 1898.

Louis Philip Hamburger, A.B., 1893.—Asst. in Medicine; Clinical Asst., J. H. Disp.; Physician, Balt.

Guy LeRoy Hunner, S. B., Univ. of Wis., 1893.—Resident Gynecologist, J. H. Hosp.

Irving Phillips Lyon, A. B., Yale, 1893.—Instructor, Univ. of Buffalo; Physician, Buffalo.

William George MacCallum, A.B., Toronto, 1894.—Associate in Pathology.

Charles Neil McBryde, S. B., Univ. of S. C., 1891, M. S., Va. Polytechnic, 1892.—Physician, Blacksburg, Va.

James Farnandis Mitchell, A. B., 1891.—Resident Surgeon, J. H. Hosp.; Instructor in Surgery.

Joseph Longworth Nichols, (F), A. B., Harvard, 1893.—U. S. Legation, Madrid.

Eugene Lindsay Opie, (F), A. B., 1893.—Instructor in Pathology.

Mary Secord Packard, A. B., Vassar, 1892.—Physician, Providence, R. I.

Omar Borton Pancoast, S. B., Swarthmore, 1893.—Physician, Baltimore.

Clement Andariese Penrose, A. B., 1893.—Physician, Balt.

Richard Pearson Strong, Ph. B., Yale, 1893.—Asst. Surgeon, U. S. A., Manila. (15)

1898.

William Stevenson Baer, A. B., 1894.—Physician, Balt.; Asst. in Orthopaedic Surgery.

William Jephtha Calvert, A. B., Ky. Univ., 1893.—Asst. Surgeon, U. S. A., Manila.

Patrick Joseph Cassidy, A. B., Yale, 1894.—Physician, New London, Conn.

John Williams Coe, Ph. B., Yale, 1893.—Instructor, Med. Dept., Cornell.

Percy Millard Dawson, (F), A. B., 1894.—Instructor in Physiology.

Arthur Wells Elting, A. B., Yale, 1894.—Chief of Surg. Clinic, Albany Hosp.; Lect. in Surg. Pathology, Albany Med. School.

William Weber Ford, A. B., Adelbert, 1893.—Fellow in Pathology, McGill Univ.

Thomas Woods Hastings, A. B., 1894.—Physician, N. Y.

Alfred Birch Herrick, A. B., Williams, 1894.—Resident Physician, Soldier's Home, Washington.

James Hall Mason Knox, Jr., A. B., Yale, 1892, Ph. D., Yale, 1894, A. M., Lafayette, 1896.—Physician, Balt.; Clin. Asst., J. H. Disp.; Asst., Coll. of Phys. and Surg.

Millard Langfeld, A. B., 1893.—Prof. of Bacteriology, Creighton Med. Coll.; Physician, Omaha.

Gertrude Underhill Light, S. B., Univ. of Wis., 1894.—Asst., Bellevue Hosp. Disp.; Physician, N. Y.

James Daniel Madison, S. B., Univ. of Wis., 1894.—Asst. Physician, Danvers Insane Hospital, Mass.

Harry Taylor Marshall, (F), A. B., 1894.—Asst. in Pathology.

Roger Griswold Perkins, A.B., Union, 1893, and Harvard, 1894.—Resident Pathologist, Lakeside Hospital, Cleveland; Demonstrator of Pathology, Western Reserve Univ.

Katherine Porter, A. B., Bryn Mawr, 1894.—Physician, Orange, N. J.

Joseph Hersey Pratt, Ph. B., Yale, 1894.—Instructor in Pathol., Harvard.

Georgiana Sands, A. B., Vassar, 1893.—Physician, Port Chester, N. Y.

Benjamin Robinson Schenck, A. B., Williams, 1894.—Asst. Gynecologist, J. H. Hospital.

Walter Ralph Steiner, A. B., Yale, 1892, and A. M., 1895.—Physician, Hartford, Conn.

Emma Elizabeth Walker, A. B., Smith, 1887.—Physician, New York.

Andrew Henderson Whitridge, S. B., Harvard, 1894.—Physician, Balt.; Clin. Asst., J. H. Disp. (22)

1899.

Edward Erle Brownell, Ph. B., Yale, 1895.—Physician, Woodland, Cal.

Humphrey Warren Buckler, A. B., 1895.—Physician, Balt.; Asst. in Obstetrics; Clin. Asst., J. H. Disp.

Rufus Ivory Cole, S. B., Michigan, 1896.—Asst. Res. Physician, J. H. Hospital.

John Staige Davis, Ph. B., Yale, 1895.—Res. Physician, Union Prot. Infirmary, Balt.

Charles Phillips Emerson, A. B., Amherst, 1894.—Asst. Res. Phys., Clin. Lab., J. H. Hosp.; Instructor in Medicine.

Blanch Nettleton Epler, S. B., California, 1895.—Physician, Kalamazoo, Mich.

Joseph Erlanger, (F), S. B., California, 1895.—Asst. in Physiology.

Philip Saffery Evans, Jr., A. B., Yale, 1895.—Physician, Balt.; Clin. Asst., J. H. Disp.

Richard Holden Follis, Jr., Ph. B., Yale, 1895.—Asst. Res. Surgeon, J. H. Hospital.

Frank Taylor Fulton, S. B., Knox, 1894, A. B., 1895.—Pathologist, R. I. General Hosp., Providence.

*James Daton Gallagher, A. B., 1895. **April* 1, 1901.

Henry Harris, A. B., Stanford, 1895.—Student in Vienna.

Henry Joseph Hoye, A. B., Brown, 1895.—Asst. Surgeon, City Hospital, Boston.

Louis Williams Ladd, A. B., Yale, 1895.—Res. Physician, Lakeside Hospital, Cleveland.

Charles Sumner Little, A. B., Wabash, 1894.—Physician, Evansville, Ind.

John Arthur Luetscher, S. B., Wisconsin, 1895.—Res. Physician, City Hosp., Boston.

Frank Allemong Lupton, S. B., Ala. Polytech., 1891.—Physician; Lect. on Obstetrics, Birmingham Med. Coll., Ala.

Frank Worthington Lynch, A. B., Adelbert, 1895.—Res. Obstetrican, J. H. Hosp.; Asst. in Obstetrics.

Chester Lea Magee, A. B., Stanford, 1895.—Physician; Instructor in San Diego (Cal.) Training School for Nurses.

Hugh Miller Moore, S. B., Miami, 1895.—Physician, Oxford, O.

Charles Williams Ottley, A. B., Princeton, 1893.—House Physician, Blackwell's Island, N. Y.

Paul Octavius Owsley, Ph. B., Yale, 1895.—Asst. Surgeon, St. Joseph's Hospital, Balt.

Jacob Hall Pleasants, Jr., A. B., 1895.—Physician, Balt.; Clin. Asst., J. H. Disp.; Assoc. Prof. of Clin. Med., Coll. of Phys. and Surg.

Sylvan Rosenheim, A. B., 1895.—Physician, Balt.; Clin. Asst., J. H. Disp.; Demonstrator, Coll. of Phys. and Surg.

John Albertson Sampson, A. B., Williams, 1895.—Asst. Res. Gynecologist, J. H. Hosp.

Halbert Severin Steensland, S. B., Wisconsin, 1895.—Lecturer in Pathology, Syracuse Univ.

William Ridgely Stone, A. B., Princeton, 1895.—Interne, Blackwell's Island, N. Y.

Edgar Randolph Strobel, A. B., 1895.—Clin. Asst., J. H. Disp.; Physician, Balt.

Frederick Herman Verhoeff, Ph. B., Yale, 1895.—Pathologist, Eye and Ear Hospital, Boston; Asst. in Pathology, Harvard.

William Whitridge Williams, A. B., 1895.—Asst. in Pathology, Univ. of Prague.

Sarah Delia Wyckoff, S. B., Wellesley, 1894.—Physician, Wilkesbarre, Pa.

John Lawrence Yates, Ph. B., Yale, 1894, S. B., Wisconsin, 1895.—Asst. Res. Surg., J. H. Hosp. (32)

1900.

Joseph Akerman, A. B., Univ. of Ga., 1894.—Res. Physician, Presb. Hosp., Phila.

Herbert Williams Allen, S. B., Univ. of Cal., 1896.—House Officer, J. H. Hosp.

Mabel Fletcher Austin, S. B., Univ. of Minn., 1893.—Pathologist, City and County Hosp., St. Paul.

Alma Emerson Beale, A. B., Wellesley, 1891.—Externe, J. H. Hosp.

Milton Bettmann, A. B., Harvard, 1897.—House Officer, J. H. Hosp.

Evelyn Briggs, A. B., Stanford, 1896.—Physician, Sacramento, Cal.

Lawrason Brown, A. B., 1895.—Physician, Saranac Lake, N. Y.

Herman Brülle, A. B. and S. B., Hampden-Sidney, 1895.—Externe, J. H. Hosp.

Curtis Field Burnam, Jr., A. B., Central Univ., Ky., 1895.—House Officer, J. H. Hosp.

Arthur Smith Chittenden, A. B., Yale, 1896.—Asst. Res. Surgeon, N. Y. Hospital.

Henry Asbury Christian, A. B. and A. M., Randolph-Macon, 1895.—Asst. in Pathology, City Hospital, Boston.

William Remshart Dancy, S. B., Univ. of Ga., 1896.—Res. Physician, Seney Hosp., Brooklyn.

Frank Curtiss Davis, A. B., Amherst, 1895.—Physician, Minneapolis.

Augustus Hartje Eggers, Ph. B., Yale, 1896.—Physician, Allegheny, Pa.

Henry Courtney Evans, A. B., Adelbert, 1896.—Interne, W. Penna. Hosp., Pittsburg.

Rose Fairbank, A. B., Smith, 1895.—Hosp. Physician, Jhansi, India.
Clarence B. Farrar, A. B., Harvard, 1896.—Clin. Asst., Sheppard Hosp., Balt.
Arthur Lawrence Fisher, S. B., Univ. of Cal., 1896.—House Officer, J. H. Hosp.
William Alexander Fisher, Jr., A. B., Princeton, 1895.—House Officer, J. H. Hosp.
Howard Fletcher, A. B., Randolph-Macon, 1895.—Physician, Warrenton, Va.
Joseph Marshall Flint, S. B., Chicago, 1895.—Associate in Anatomy, Univ. of Chicago.
William Patrick Healy, Ph. B., Yale, 1896.—House Physician, Blackwell's Island Hosp., N. Y.
William Faithful Hendrickson, A. B., 1896.—Demonstrator of Pathology, Univ. of Pa.
Albion Walter Hewlett, S. B., California, 1895.—Interne, N. Y. Hospital.
William Crissey Kellogg, A. B., Yale, 1896.—Res. Physician, Soldier's Home, Washington.
Preston Kyes, A. B., Bowdoin, 1896.—Instructor in Anatomy, Rush Med. Coll., Chicago.
Leona Lebus, S. B., Wellesley, 1896.—Student in Europe.
Warren Harmon Lewis, S. B., Michigan, 1894.—Asst. in Anatomy.
Harry Wilson Little, S. B., Wabash, 1896.—House Physician, Blackwell's Island Hosp., N. Y.
Ellen Louise Lowell, A. B., Stanford, 1896.—Interne, N. Y. Infirmary for Women.
John Bruce MacCallum, A. B., Toronto, 1896.—Asst. in Anatomy.
Mary Wilbur Marvell, S. B., Wellesley, 1894.—House Officer, New England Hosp., Roxbury.
Clara R. Meltzer, A. B., Columbia, 1896.—Engaged in Special Research.
Clelia Duel Mosher, A. B., Stanford, 1893.—Externe, J. H. Hosp.
Hannah Glidden Myrick, A. B., Smith, 1896.—House Physician, New England Hosp., Roxbury.
Edward Spiller Oliver, A. B., 1895.—Physician, Saranac Lake, N. Y.
Richard Foster Rand, Ph. B., Yale, 1895.—House Officer, J. H. Hosp.
Dorothy M. Reed, B. L., Smith, 1895.—House Officer, J. H. Hosp.
Glanville Yeisley Rusk, A. B., 1896.—House Officer, J. H. Hosp.
Florence Rena Sabin, S. B., Smith, 1893.—House Officer, J. H. Hosp.
William Francis Mattingly Sowers, A. B., Princeton, 1896.—House Officer, J. H. Hosp.
Ellen Appleton Stone, A. B., Radcliffe, 1895.—Interne, Hosp. for Women, Syracuse, N. Y.
Mortimer Warren, A. B., Bowdoin, 1896.—Externe, City Hosp., Boston.
Paul Gerhardt Woolley, S. B., Chicago, 1896.—House Officer, J. H. Hosp.

(44) (113)

10. Bachelors of Arts.

(When the institution is not named, this university is to be understood. (F) indicates that the person has held a fellowship here.—*Died.)

1879.

George Washington McCreary, City Librarian, Balt., 1896-98.—Baltimore.
Chase Palmer, (F), Ph. D., 1882., Asst., Mass. Inst. of Tech., 1882-83, Prof., Mass. Normal School, Salem, 1883-87, Asst., Tufts Coll., 1887-88, Prof., Wabash Coll., 1888-90.—Prof. of Chemistry, Manual Training High School, Louisville, Ky.
Edward Henry Spieker, (F), Ph. D., 1882, Instructor and Associate, 1882-88.—Assoc. Prof. of Greek and Latin. (3)

1880.

Rev. Thomas Milton Beadenkopf, B. D., Yale, 1885.—Clergyman, Balt.
Allen Kerr Bond, M. D., Univ. of Md., 1882.—Physician, Balt.
William Cathcart Day, (F), Ph. D., 1883, Prof., St. John's Coll., 1883-84, and Univ. of Nashville, 1884-87.—Prof. of Chemistry, Swarthmore Coll.
Henry Laurence Gantt, M. E., Stevens Inst. of Tech., 1884, Instructor, McDonogh School, 1886-87.—Fitchburg, Mass.
Edgar Goodman, LL. B., Univ. of Md., 1881.—Editor, *The Baltimore American.*
Rev. Carl Eckhardt Grammer, Va. Theol. Sem., 1884, S. T. D., Trinity (Conn.), 1895, Prof., Va. Theol. Sem., 1887-97.—Clergyman, Norfolk, Va.
Alexander Fridge Jamieson.—Latin Master, Lawrenceville School, N. J.

*Edmund Allen Jarvis. **October* 15, 1880.
Stewart Brian Linthicum, LL. B., Univ. of Md., 1882.—Atty. at Law, Portland, Ore.
John Hanson Lowe, LL. B., Univ. of Md., 1882.—Atty. at Law, Balt.
Rev. Leigh Clinton Morgan, late Instructor, Kenyon Coll.—Clergyman, N. Y.
*Nelson Palmer. **June* 12, 1886.
Thomas Pettigrew.—Civil Engineer, Parkersburg, W. Va.
Harry Fielding Reid, (F), Ph. D., 1885, Asst., 1882-84, Lecturer, 1894-96, Prof., Case School, 1886-94, Assoc. Prof., Chicago, 1895-97.—Assoc. Prof. of Geological Physics.
*Rev. Wiltz Raymond Stricklen. **December* 19, 1900.
Lewis Webb Wilhelm, (F), Ph. D., 1884.—Vice-Principal, Coll. Prep. School, Balt. (16)

1881.

William Wilson Baden, (F), Ph. D., 1892, LL. B., Univ. of Md., 1883, Prof., Southwestern Univ., 1892-93, Central Univ., 1893-96.—Prof. of Latin, Univ. of Idaho.
Henry Johns Bowdoin, LL. B., Univ. of Md., 1883.—Prest., Md. Trust Co.
John Wilson Brown.—Philadelphia, Pa.
David Talbot Day, (F), Ph. D., 1884.—U. S. Geol. Survey, Washington.
William Henry Howell, (F), Ph. D., 1884, M. D., Univ. of Mich., 1890, Asst., Associate, and Assoc. Prof., 1884-89, Lecturer and Prof., Univ. of Mich., 1889-92, Assoc. Prof., Harvard, 1892-93.—Prof. of Physiology and Dean of the Med. Faculty; Assoc. Editor, *Journal of Experimental Medicine.*
John Hemsley Johnson, LL. B., Univ. of Md., 1887, Instructor, McDonogh School, 1881-86.—Atty. at Law, Balt.
*James Edward Keeler, D. Sc., Univ. of Cal., 1893, Fellow, Royal Astron. Soc. of London, Allegheny Observ., 1882-86, Lick Observ., 1886-91, Rumford Medallist, Amer. Acad. of Arts and Sci., 1898, Prof., Western Univ. of Pa., and Director, Allegheny Observ., 1891-98, Director, Lick Observ., 1898-1900. **August* 12, 1900.
Rev. Edwin George Richardson.—Clergyman, Milwaukee, Wis.
Adoniram Judson Robinson, LL. B., Univ. of Md., 1885, Instructor, Balt. City Coll., 1881-87.—Atty. at Law, Balt.; Member, Md. House of Delegates.
*Henry Rolando, M. D., Univ. of Md., 1888. **October* 4, 1888.
Lee Sale, LL. B., Washington Univ., 1885, Instructor, Louisville High School, 1881-83.—Atty. at Law, St. Louis, Mo.; Lecturer, St. Louis Law School.
Mactier Warfield, M. D., Univ. of Md., 1884.—Physician, Balt.; Instructor in Laryngology. (12)

1882.

William Hughlett Adkins, LL. B., Univ. of Md., 1883.—Atty. at Law, Easton, Md.
Thomas Alexis Berry.—Baltimore.
Gustav Bissing, (F), Ph. D., 1885, Examiner, U. S. Patent Office, 1884-98.—Patent Atty., Washington.
Walter Bernard Clarkson, Teacher, Member of Board of Educ., and Supt. of Schools, St. Augustine and Jacksonville, 1878-89.—Atty. at Law, Jacksonville, Fla.
Herman Louis Ebeling, (F), Ph. D., 1891, Prof. of Greek, Miami Univ., 1891-99.—Trenton, N. J.
Louis Garthe.
Edward Ingle.—Editor, Baltimore.
Richard Fuller Kimball, LL. B., Univ. of Md., 1884.—Atty. at Law, Balt.
*Gustav Adolph Liebig, Jr., (F), Ph. D., 1885, Asst., 1887-90. **February* 10, 1897.
Charles William Emil Miller, (F), Ph. D., 1886, Prof., Peoria (Ill.) High School, 1888-90, and Walther Coll., St. Louis, 1890-91.—Assoc. Prof. of Greek.
James Page.—U. S. Hydrographic Office, Washington.
Albert Gallatin Palmer, (F), Ph. D., 1885, Asst. and Asst. Prof., Swarthmore, 1885-87.—Norwood, Md.
Robert Miller Reese.—Baltimore.
*Louis Tebbetts Stevens, (F), M. D., Harvard, 1887, late Lecturer, Washington Univ. **February* 9, 1898.
Herbert Thorndyke Tiffany, LL. B., Univ. of Md., 1885.—Baltimore. (15)

1883.

William Shirley Bayley, (F), Ph. D., 1886.—U. S. Geol. Survey; Prof. of Geology and Mineralogy, Colby Univ.
Maurice Fels, LL. B., Univ. of Pa., 1886.—Atty. at Law, Philadelphia.
David Sterrett Gittings.—Baltimore.
William Beatty Harlan, LL. B., Univ. of Md., 1885, A. M., St. John's, 1888.—Atty. at Law, Churchville, Md.

George Theophilus Kemp, (F), Ph. D., 1886, M.D., L. I. Med. Coll.,1891, Demonstrator, Univ.of Pa., 1886-87, Associate and Assoc. Director, etc., Hoagland Lab., 1888-93.—Prof. of Physiology, Univ. of Illinois.

Gonzalez Lodge, (F), Ph. D., 1886, Prof., Davidson, 1886-88, Prof., Bryn Mawr, 1889-1900.—Prof. of Greek and Latin, Teachers Coll., N. Y.

William Edgar Stratton, M. D., Harvard, 1886.—Physician, Brooklyn, N. Y.

Henry Winslow Williams, LL. B., Univ. of Md., 1885.—Atty. at Law, Balt.

Henry Van Peters Wilson, (F), Ph. D., 1888, Bruce Fellow, 1888-89.—Prof. of Biology, Univ. of N. C.

William John Witzenbacher, Instructor, McDonogh School,1883-86.—Atty. at Law, Hagerstown, Md. (10)

1884.

Rev. Albert Clayton Applegarth, Ph. D., 1887.—Clergyman, Huntingdon, Pa.

Charles Walter Artz, LL. B., Columbia, 1886.—Atty. at Law, N. Y.

Walter Bliss Canfield.—Chemist, Pittsburg.

George Gibson Carey, LL. B., Univ. of Md., 1886.—Atty. at Law, Balt.

William Kennedy Cromwell.—Baltimore.

Charles William Remsberg Crum, M. D., Univ. of Md., 1888, Instructor, Mercersburg Coll., 1884-86, 1889-90, Prof. of Mathematics, Ursinus Coll., 1892-95.

Harry Friedenwald,M.D., Phys. and Surg., Balt., 1886.—Physician, Balt.; Assoc. Prof., Coll. of Phys. and Surg.

Rev. William Lindsay Glenn, LL.B., Univ. of Md., 1888.—Clergyman, Balt.

John Hinkley, LL. B.,Univ. of Md., 1886.—Atty. at Law, Balt.

Charles Morris Howard, LL. B., Univ. of Md., 1888.—Atty. at Law, Balt.

John Deering Lord, Jr., LL. B., Columbia, 1886.—Atty. at Law, Balt.

Jere Williams Lord, M. D., Univ. of Pa., 1887.—Physician, Balt.; Clin. Prof. of Dermatology; Assoc. Prof. of Anatomy, Balt. Med. Coll.

William Patrick Lyons, LL. B., Univ. of Md., 1886.—Atty. at Law, Balt.

Edgar George Miller, Jr., LL. B., Univ. of Md., 1886.—Atty. at Law, Balt.

William Ridgely Orndorff, (F), Ph. D., 1887.—Asst. Prof. of Organic Chemistry, Cornell.

George Dobbin Penniman, LL. B., Univ. of Md., 1886.—Atty. at Law, Balt.

William Henry Perkins, Jr., LL. B., Univ. of Md., 1888.—Atty. at Law, Balt.

*George Clement Stokes, Jr., LL. B., Univ. of Md., 1888. **January* 21, 1897.

*William John Thomas, Prof. of Mathematics, Western Md. Coll., 1884-85. **March* 9, 1885.

*William Ferdinand Walz. **March* 21, 1887.

Frederick Henry Wilkens, Ph. D., Leipsic, 1891, Asst. Prof. of German, Univ. of Wis., 1893-96.—Berlin, Germany.

George Wishart Edmond, (*extra ordinem*), Assistant, 1889-90.—Garvanza, Cal.

Charles Howard Shinn, (*extra ordinem*).—Inspector of Agric. Experiment Stations, Univ. of Cal. (23)

1885.

John Pendleton Campbell, (F), Ph. D., 1888.—Prof. of Biology, Univ. of Ga.

John Glenn, Jr., LL. B.,Univ. of Md., 1887.—Atty. at Law, Balt.

Rt. Rev. Junius Moore Horner, S. T. B., General Theol. Sem., N. Y., 1890, late Classical Instructor, Oxford, N. C.—P. E. Missionary Bishop of Asheville.

James Albert Loane.—Baltimore.

Harry Wilbur Price, LL. B., Columbian, 1887.—Atty. at Law, Chicago.

Benjamin Titus Roberts, Jr.

Moses Roth Ryttenberg, LL. B., Univ. of Md., 1888.—Atty. at Law, N. Y.

Hugo Steiner, LL. B., Univ. of Md., 1887.—Atty. at Law, Balt.

Henry Hazlehurst Wiegand, Proficient in Electricity, 1889.—Electrical Engineer, Balt. (9)

1886.

Joseph Sweetman Ames, (F), Ph. D., 1890, Assistant, Associate, and Assoc. Prof., 1888-98.—Professor of Physics.

Wilson Lloyd Bevan, S. T. B., Gen. Theol. Sem., N. Y., 1889, A. M. and Fellow of Columbia, 1889, Ph.D., Munich, 1893.—Prof. of Polit. Science, &c., Univ. of the South.

Thomas Hepburn Buckler, M. D., Univ. of Md., 1888.—Physician, Balt.

Alfred Robert Louis Dohme, Ph.D., 1889.—Manufacturing Chemist, Balt.

Albert Alvin Doub, Teacher, Frostburg, Md.,1886-93.—Atty. at Law, Cumberland.

William Snyder Eichelberger, (F). Ph. D., 1891, Instructor,Wesleyan Univ., 1891-96.—Prof. of Mathematics, U. S. Navy.

Harry English.—Instructor, High School, Washington, D. C.

Abraham Flexner.—Principal, Flexner's School, Louisville, Ky.

William Edward Gates.—Cleveland, O.

*William Curns Lawrence Gorton, (F), Ph. D., 1889, Assoc. Prof. and Prof. of Mathematics, Woman's Coll., Balt., 1888–94. **November* 8, 1894.

Joseph Edward Harry, (F), Ph. D., 1889, Prof., Georgetown (Ky.), 1889–1900.—Prof. of Greek, Univ. of Cincinnati.

Benjamin Henry Hartogensis, Editor, Balt., 1890–96.—Atty. at Law, Balt.

James Shaler Hodges, Instructor, St. Paul's School, N. H., 1886–88, Proficient in Electricity, 1890.—Electrical Engineer, Balt.

Theodore Hough, (F), Ph. D., 1893, Instructor, McDonogh School, 1886–89.—Asst. Prof. of Biology, Mass. Inst. of Tech.

Percy Meredith Hughes.—Principal, Central High School, Washington, D. C.

John Henry Laessig, Jr.—Engineer, Balt.

Allan McLane, Jr., LL. B., Univ. of Md., 1888.—Atty. at Law, Balt.

John Hanson Thomas McPherson, (F), Ph. D., 1890, Instructor, Univ. of Mich., 1890–91.—Prof. of History, Univ. of Ga.

Colyer Meriwether, Ph. D., 1893.—Instructor in English, High School, Washington.

John Pleasants.—Baltimore.

Richard Hall Pleasants, Jr., LL. B., Univ. of Md., 1889.—Atty. at Law, Balt.

William Flood Smith, M. D., Phys. and Surg., Balt., 1889, Instructor, McDonogh School, 1886–87.—Physician, Balt.

Michael Daniel Stein.—Street Railway Supt., San Francisco.

Bernard Wiesenfeld, LL. B., Univ. of Md., 1889.—Atty. at Law, Balt.

John Whitridge Williams, M. D., Univ. of Md., 1888.—Physician, Balt., Obstetrician in Chief, J. H. Hosp.; Prof. of Obstetrics.

Langdon Williams.—Teacher, Philadelphia.

*William Klapp Williams, Ph. D., 1889.—**June* 4, 1897.

John Randolph Winslow, M. D., Univ. of Md., 1888.—Physician, Balt.

*Allan Chase Woods. **September* 9, 1886.

Frederick George Young, Vice-Pres., S. Dakota Normal School, 1888–91.—Prof. of Economics, etc., Univ. of Oregon.

*Thomas McCabe, (*extra ordinem*), (F), Ph. D., 1888, Instructor, Univ. of Mich., 1888–89, Prof., Indiana Univ., 1889–90, Associate in French, Bryn Mawr, 1890–91. **February* 22, 1891. (31)

1887.

Rev. Edward Carey Applegarth, (F), Ph. D., 1890, M. D., Phys. and Surg., Balt., 1892.—Clergyman, Boston.

Richard Howard Bayard, LL. B., Univ. of Md., 1889.—Atty. at Law, Balt.

Herbert Maxwell Brune, LL. B., Univ. of Md., 1889.—Atty. at Law, Balt.

Charles Edward Coates, Jr., Ph. D., 1891, Prof., St. John's Coll., 1891–93.—Prof. of Chemistry, La. State Univ.

Rev. William Roswell Cole, B. D., Harvard, 1890.—Clergyman, Cohassett, Mass.

Paul Joseph Dashiell, Ph. D., 1891, Instructor, Lehigh, 1889–90, 1891–92.—Prof. of Chemistry, U. S. Naval Acad.

George Peter Dreyer, (F), Ph. D., 1890, Demonstrator, Associate, and Assoc. Prof., 1890–1900.—Prof. of Physiology, Med. Dept., Univ. of Ill.

Edward Duffy, Jr., LL. B., Univ. of Md., 1889.—Atty. at Law. Balt.

James Clark Fifield.—Atty. at Law, Minneapolis, Minn.

Julius Friedenwald, M. D., Phys. and Surg. (Balt.), 1890, A. M., Loyola, 1898.—Physician, Balt.; Assoc. Prof. of Pathology, Coll. of Phys. and Surg.

Douglas Huntly Gordon, LL. B., Univ. of Md., 1889.—Pres., International Trust Co., Balt.

Jay Cæsar Guggenheimer, LL. B., Columbia, 1891.—Atty. at Law, N. Y.

Charles Homer Haskins, Ph. D., 1890, Instructor, 1889–90, Lecturer, Harvard, 1899–1900.—Prof. of Institutional History, Univ. of Wis.

George Lincoln Hendrickson, Prof., Colorado Coll., 1889–91, and Univ. of Wis., 1891–96.—Prof. of Latin, Univ. of Chicago.

Franz Otto Karl Hoffmann.—Berlin, Germany.

Robert Milligan McLane, Jr., LL. B., Univ. of Md., 1891.—Prof., Balt. Law School; State's Atty.

Robert William Rogers, Ph. D., Haverford, 1890, D. D., Wesleyan, 1894, Ph. D., Leipsic, 1895, Instructor, Haverford, 1887–90, Professor, Dickinson, 1890–93.—Prof. of Hebrew, Drew Theol. Sem.; Lecturer, Woman's Coll., Balt.

Henry Oliver Thompson, LL. B., Univ. of Md., 1890.—Atty. at Law, Balt.

Benjamin Simon William Tuska, A. M., Columbia, 1888, and LL. B., 1889.—Atty. at Law, N. Y.

Rev. Robert William Henry Weech.—Clergyman, Aberdeen, Md.

*Edward William Willis, M. D., Univ. of Md., 1889. **August* 7, 1893.

Henry Firey Wingert.—Atty. at Law, Hagerstown, Md.

Walter Bell Scalfe (*extra ordinem*), Ph. D., Vienna, 1887.—Pittsburg.

Albert Henry Smyth (*extra ordinem*).—Prof. of English, Central High School, Phila.; Lecturer, 1899-1900. (24)

1888.

Henry Harold Ballard, Ph. D., 1893, Instructor, Rose Polytech. Inst., 1893-96.—Science Master, Country School, Balt.

Edward Ambrose Bechtel, (F), Ph. D., Chicago, 1900.—Associate in Latin, Univ. of Chicago.

James William Black, Ph. D., 1891, Acting Prof., Georgetown Coll., Ky., 1891-92, Assoc. Prof., Oberlin, 1892-94.—Prof. of History, etc., Colby Univ.

Charles Pliny Brigham, Ph. D., 1891.—Greenport, Long Island.

*William Bromwell, Ph. D., 1895, Instructor in Chemistry, Pratt Inst., Brooklyn, 1896-98. **September* 30, 1898.

*Hamilton McFarland Brown. **May* 8, 1892.

Arthur Lee Browne.—Assoc. Prof. of Chemistry, Balt. Medical Coll.

Charles Hamilton Carey.—Baltimore.

John Broughton Daish, LL. B., Georgetown (D. C.), 1900, Instructor, Washington High School, 1888-89.—Atty. at Law, Washington.

Rev. William Levering Devries, (F), Ph. D., 1892, S. T. B., General Theol. Sem., N. Y., 1894.—Clergyman, Washington, D. C.

Gustav Edward Gieske, M. D., Phys. and Surg., Balt., 1891.—Catonsville, Md.

Raleigh Colston Gildersleeve.—Architect, N. Y.

Harris Hancock, Ph. D., Berlin, 1894, Asst., Instructor, and Associate, Chicago, 1892-1900.—Prof. of Mathematics, Univ. of Cincinnati.

Walter Jones, Ph. D., 1891, Acting Prof., Wittenberg Coll., 1891-92, Instructor and Prof., Purdue Univ., 1892-95.—Associate in Physiological Chemistry.

*William Augustine Jones, LL. B., Univ. of Ala, 1889. **February* 11, 1894.

Arthur Lincoln Lamb.—Science Master, Country School, Balt.

Charles Day Lanier.—Assistant Editor, *The Review of Reviews*, N. Y.

John Bright Macauley.—Washington, D. C.

*William Howard Miller, Instructor in Mathematics, Stanford Univ., 1891-93. **March* 2, 1893.

*George Neville Moore. **October* 29, 1889.

John Henry O'Donovan, M. D., Univ. of Md, 1891.—Baltimore.

Frank Eugene Reader—Atty. at Law, New Brighton, Pa.

Louis Rettger.—Instructor, Terre Haute Normal School.

David Ellsworth Roberts.—Assistant, Art Dept., Library of Congress.

Lessing Rosenthal, LL. B., Northwestern Univ., 1891.—Atty. at Law, Chicago.

Charles Edmund Simon, M. D., Univ. of Md., 1890.—Physician, Balt.

Rev. Charles Kephart Swartz, Oberlin Theol. Sem., 1892.—Gettysburg, Pa.

Robert Melvin Tarleton, E. M., Lehigh, 1895.—Mining Engineer, Omaha, Neb.

Edward Lucas White, Assistant, Dartmouth, 1891-92.—Classical Instructor, Boys' Latin School, Balt.

John White, Jr., (F), Ph. D., 1891, Assistant, Cornell, 1891-93.—Prof. of Gen. and Anal. Chemistry, Univ. of Neb.

Westel Woodbury Willoughby, (F), Ph. D., 1891, Acting Asst. Prof., Stanford, 1894-95.—Assoc. Prof. of Political Science.

William Franklin Willoughby.—Statistical Expert, U. S. Dept. of Labor, Washington; Lecturer, Harvard, 1900-1901; Lecturer on Social Economics.

Charles Hiram Chapman, (*extra ordinem*), (F), Ph. D., 1890, Instructor and Associate, 1889-92, Prest., Univ. of Oregon, 1893-99.

Charles Collier Holden, (*extra ordinem*).—Instructor in Mod. Lang., Balt. (34)

1889.

Adolph Bernhard, Ph. D., Chicago, 1894, Asst. in Chemistry, Univ. of Chicago, 1893-98.

Hiram Horsburgh Bice.—Classical Instructor, High School, N. Y.

John Sedgewick Billings, M. D., Univ. of Pa., 1892.—Physician, N. Y.

Walton Bolgiano, M. D., Univ. of Pa., 1892.—Physician, Balt.

Theodore Cooke, Jr., M. D., Univ. of Md., 1891.—Physician, Balt.

Frank Barnum Culver.—Baltimore.

Richard Edward Edes, M. D., Harvard, 1895, Morgan Fellow, Harvard, 1890–91, Instructor, Mass. Inst. of Tech., 1892–93. —Physician, Dorchester, Mass.

Daniel Nathan Eisendrath, M. D., Chicago Med. Coll., 1891.—Physician, Chicago.

Albert Bernhardt Faust, (F), Ph. D., 1892, Instructor, 1894–96.—Assoc. Prof. of German, Wesleyan Univ.

Charles Lee Fulton, LL. B., Univ. of Md., 1892.—Atty. at Law, Balt.

Joseph Elliott Gilpin, Ph. D., 1892.—Associate in Chemistry.

Ross Granville Harrison, (F), Ph. D., 1894, M. D., Bonn, 1899, Bruce Fellow, 1894, Lecturer, Bryn Mawr, 1894–95, Instructor and Associate, 1896–99.—Assoc. Prof. of Anatomy.

George Newton Cressy Henschen.—Instructor, High School, Harrisburg, Pa.

William Sadler Hilles.—Baltimore.

William Isaac Hull, Ph. D., 1892.—Prof. of History, etc., Swarthmore Coll.

Harry Clary Jones, (F), Ph. D., 1892.—Assoc. Prof. of Physical Chemistry.

George Charles Keidel, (F), Ph. D., 1895.—Associate in Romance Lang.

*Jesse William Lazear, M. D., Phys. and Surg. (N. Y.), 1892, Asst. in Clinical Microscopy, 1897–1900; Asst. Surgeon, U. S. Army, 1900. **September* 25, 1900.

Alfred Mann, M. D., Phys. and Surg. (N. Y.), 1892.—Asst. in Pathology, Univ. of Denver; Physician, Denver, Colo.

Charles Carroll Marden, Ph. D., 1894, Instructor, Univ. of Mich., 1890–91.—Assoc. Prof. of Romance Lang.

William Watson McCulloh, LL. B., Univ. of Md., 1892, M. D., Univ. of Pa., 1898.—Physician, Balt.

Philip Randle Moale, Ph. D., 1894.—Chemist, Asheville, N. C.

Waldo Newcomer.—Baltimore.

Leonard Magruder Passano.—Instructor in Mathematics, Mass. Inst. of Tech.

Arthur Jackson Patek, M. D., Univ. of Pa., 1892.—Physician, Milwaukee, Wis.

William Peters Reeves, Ph. D., 1893, Asst., Union Coll., 1895–97, Prof., Iowa Univ., 1897–1900.—Prof. of English, Kenyon.

Legh Wilber Reid, M. S., Princeton, 1896, Ph. D., Göttingen, 1899, Instructor, Princeton, 1898–1900.—Instructor in Mathematics, Haverford.

Ralph Robinson, LL. B., Univ. of Md., 1891.—Atty. at Law; Prof., Balt. Law School.

Brantz Mayer Roszel, (F), Ph. D., 1896.—Instructor in Physics, Washington High School.

Rev. John George Sadtler, Gen. Theol. Sem., N. Y., 1893.—Clergyman, Balt.

Benjamin Bittinger Shreeves, LL. B., Univ. of Md., 1891.—Atty. at Law, Balt.

Robert Tunstall Taylor, M. D., Univ. of Va., 1891.—Physician, Balt.; Surgeon, Hosp. for Crippled Children.

Walter Herron Taylor, LL. B., Univ. of Va., 1891.—Atty. at Law, Norfolk, Va.

Winfield Scott Thomas, Professor, Chaffee Coll., 1889–90.—Classical Instructor, High School, Merced, Cal.

Harry Maas Ullmann, Ph. D., 1892, Hon. Fellow, Univ. of Chicago, 1892–93.—Instructor in Chemistry, Lehigh.

Horatio Alanson Warren.—Teacher, Broad Brook, Conn. (36)

1890.

John McEwen Ames.—Detroit, Mich.

William Hand Browne, Jr., Instructor, Univ. of Neb., 1896–98.—Asst. Prof. of Electricity, Univ. of Ill.

James Edmund Bryan, Jr.—Supervisor of Schools, Camden, N. J.

Rev. Ralph Erskine Carson, Allegheny Theol. Sem., 1895, Classical Instructor, Phila., 1890–92.—Sapphire, N. C.

*William Henry Carson, LL. B. and A. M., Harvard, 1894. **August* 12, 1899.

Sydney Million Cone, M. D., Univ. of Pa., 1893, Asst. in Surg. Pathology, 1896–1900. —Physician, Balt.; Clinical Asst., J. H. Dispensary.

Vernon Cook, LL. B., Univ. of Md., 1892.—Atty. at Law, Balt.

Lucius Bradley Dorr, M. D., Univ. of Md., 1890.—Physician, Buffalo, N. Y.

Edwin Stanton Faust, Ph. D., Munich, 1893, Assistant, 1894–95.

Ned Arden Flood, A. M., Allegheny Coll., 1898, Lecturer, Allegheny, 1895–98, late Director, Chicago University Press.—Editor, Meadville, Pa.

Herbert Friedenwald.—Superintendent, Dept. of MSS., Library of Congress.

Fielding Hudson Garrison, M. D., Georgetown, 1893.—Physician, Washington.

Joseph Philip Gerry, Instructor, Washington High School, 1892–97.—Fellow and Instructor, Catholic Univ.

George William Gray, Ph. D., 1895.—Chemist, Standard Oil Co., Whiting, Ind.

Samuel H. Guggenheimer.—Atty. at Law, N. Y.

Daniel Dorsey Guy.—Asst. Editor, *The Sun*, Balt.

James Chew Johnston, M. D., New York Univ., 1892.—Physician, N. Y.

Edward Parkin Keech, Jr., LL. B., Univ. of Md., 1892.—Atty. at Law, Balt.

Henry McElderry Knower, (F), Ph.D., 1896, Bruce Fellow, 1895-96, Instructor, Williams, 1896-97.—Instructor in Anatomy.

Berwick Bruce Lanier, M. D., Univ. of Md., 1892.—Physician, Balt.

Sylvan Hayes Lauchheimer, LL. B., Univ. of Md., 1892.—Atty. at Law, Balt.

Tilghman Brice Marden, M. D., Univ. of Md., 1892.—Physician; Lecturer in Histology, Balt. Med. Coll.

George Clarence Morrison, LL. B., Univ. of Md., 1893.—Atty. at Law; Prof., Balt. Law School.

Arthur Alexander Oehm.—Instructor in Music, Balt.

*Arthur Rosewald Oppenheimer, M. D., Univ. of Pa., 1893. **April* 29, 1895.

Rev. Lyman Pierson Powell.—Clergyman, Lansdowne, Pa.

Rev. Samuel Guy Snowden, B.D., Drew Theol. Sem., 1893.—Clergyman, Nichols, N. Y.

James Ernest Stokes, M. D., Univ. of Md., 1892.—Physician, Salisbury, N. C.

Isaac Lobe Straus, LL. B., Univ. of Md., 1892.—Atty at Law, Balt.

Charles Snowden Watts, LL. B., Univ. of Md., 1893.—Atty. at Law, Balt.

William Wallace Whitelock, Ph.D., Munich, 1892.—New York.

William Whitridge.—Baltimore.

Adolph Grant Wolf.—Atty. at Law, Washington.

Frank Alfred Wolff, Jr., (F), Ph. D., 1893.—Chemist, Agric. Dept., Washington.

James Homer Wright, M. D., Univ. of Md., 1892, A. M., Harvard, 1894, Fellow, Univ. of Pa., 1892-93.—Instructor in Pathology, Harvard; Pathologist in Chief, Mass. General Hosp., Boston.

Rev. Oscar Woodward Zeigler, Princeton Theol. Sem., 1893, A. M., Princeton, 1894.—Clergyman, Moscow Mills, Md.

Inazo Nitobe (Ota), (*extra ordinem*), Ph. D., Halle, 1890.—Prof. of Economics, etc., Imperial Coll. of Agric., Sapporo, Japan. (37)

1891.

Michael Alexander Agelasto, A.M., Columbia, 1893.—Norfolk, Va.

*Delano Ames, M. D., Univ. of Md., 1892. **March* 10, 1899.

Thomas Stockham Baker, (F), Ph. D., 1895.—Lecturer in German; Prof. of Modern Lang., Tome Inst.

Randolph Barton, Jr., LL.B., Univ. of Md., 1893.—Atty. at Law, Balt.

Daniel Base, Ph. D., 1895.—Assoc. Prof. of Chemistry, Md. Coll. of Pharmacy.

William Bissing, M. E., Ohio State Univ., 1893.—Asst. Examiner, U.S. Patent Office.

Rev. Frederick Foye Briggs, Crozer Theol. Sem., 1894.—Clergyman, Philadelphia.

Shellman Baer Brown, Proficient in Electricity, 1893.—Annapolis, Md.

Thomas Morris Brown.—Cleveland, O.

Sidney Hand Browne, Proficient in Electricity, 1893.—Engineer, Balt.

Henry Andrews Bumstead, Ph. D., Yale, 1897.—Asst. Prof. of Physics, Yale.

Frank Kenneth Cameron, Ph. D., 1894, Fellow and Asst., Cornell, 1894-95, 1897-98, Asst. Prof., Catholic Univ., 1895-97.—Chemist, Agric. Dept., Washington.

Malcolm John Cameron, A. M., St. Francis Xavier (N. Y.), 1892, LL. B. and A. M., Columbia, 1894.—Baltimore.

George Carey.—New York.

Rev. Neilson Poe Carey, S. T. B., General Theol. Sem., N. Y., 1897.—Clergyman, Quogue, N. Y.

Abraham Cohen, (F), Ph. D., 1894.—Associate in Mathematics.

Harry Webster Cooke.—Atty. at Law, Balt.

Arthur Aaron Dembitz.—New York.

Augustus Kountze Detwiler, M. D., Univ., of Pa., 1894.—Physician, Omaha, Neb.

George W. Dobbin, M. D., Univ. of Md., 1894.—Associate in Obstetrics; Prof. of Obstetrics, Coll. of Phys. and Surg., Baltimore.

William Francis Gallaway, (F), Ph. D., 1896.—Principal of Chatham Acad., Savannah, Ga.

George Henry Heitmuller, M. D., Univ. of Pa., 1894.—Physician, Washington.

Philip Hanson Hiss, Jr., M. D., Columbia.—Physician; Instructor in Bacteriology, Coll. of Phys. and Surg., N. Y.

Jacob H. Hollander, (F), Ph. D., 1894, Asst., Instructor, and Associate, 1894-99.—Assoc. Prof. of Finance; Treasurer of Porto Rico.

Charles McHenry Howard, LL. B., Univ. of Md., 1893.—Atty. at Law, Balt.

Reid Hunt, (F), Ph. D., 1896, M. D., Phys. and Surg. (Balt.), 1896, Tutor in Physiology, Columbia, 1896-98.—Assoc. Prof. of Pharmacology.

Charles William Leverett Johnson, (F), Ph. D., 1896, Instructor in Greek, Yale, 1897-1900.—Balt.

Henry Webster Keating.—Instructor, Coll. of St. James Grammar School, Md.

*William Knower, LL. B., Univ. of Md., 1893. **December* 27, 1894.

George Lefevre, (F), Ph. D., 1896, Bruce Fellow, 1895-97, Assistant, 1897-98.—Prof. of Zoology, Univ. of Missouri.

George Milton Linthicum, M. D., Phys. and Surg. (Balt.), 1893.—Demonstrator, Woman's Med. Coll.; Physician, Balt.

Hugh Sisson Magruder, S. B., Columbia, 1898.—Architect, Balt.

Arthur William McDougall.—General Sec., Associated Charities, Orange, N. J.

Rev. Whitford L. McDowell.—Clergyman, Balt.

James Farnandis Mitchell, M. D., 1897.—Resident Surgeon, J. H. Hospital; Instructor in Surgery.

Archibald Campbell Murray.—Baltimore.

Charles Fairbank Painter, M. D., Harvard, 1895, Asst., Harvard, 1897-99.—Physician, Boston.

Alfred Wilmot Pleasants.—Baltimore.

Alfred Magill Randolph, Jr., Proficient in Electricity, 1894—Engineer, Pittsburg.

William Ferdinand Rittler.

Charles James Search, M. D., Univ. of Wooster, 1892.—Physician, Brooklyn.

Alfred Jenkins Shriver, LL. B., Univ. of Md., 1893, A. M., Loyola, 1894.—Atty. at Law, Balt.

Rev. James Lawrenson Smiley.—Clergyman, Manila, P. I.

Samuel King Smith, LL. B., Univ. of Md., 1893.—Atty. at Law, Balt.

Rev. Daniel Gurden Stevens, Jr., (F), Ph. D., 1894, B. D., Crozer Theol. Sem., 1897.—Clergyman, Bryn Mawr, Pa.

Charles Morton Stewart, Jr.—Baltimore.

William Stuart Symington, Jr., Ph. D., 1895, Asst. Prof., Stanford, 1894-95.—Prof. of Romance Lang., Amherst.

Matthew Möller Johnston Vea.—Stoughton, Wis.

Charles Joseph West.

Charles Francis Woods, Jr., Ph. D., 1897, Prof., Woman's Coll., Richmond, 1897-99, Acting Prof., Swarthmore, 1899-1900.—Acting Prof. of Modern Lang., Pennsylvania Coll.

Rev. Edward Louis Watson.—Clergyman, Baltimore. (51)

1898.

Harry Adler, M. D., Univ. of Md., 1895.—Physician, Balt.

Newton Diehl Baker, Jr., LL. B., Washington and Lee, 1894.—Atty. at Law, Cleveland; Professor, Cleveland Law School.

Charles Gambrill Baldwin, LL. B., Univ. of Md., 1895.—Atty. at Law, Balt.

Edwin Bernhard Behrend, M. D., Georgetown, 1894.—Physician, Washington.

Rev. Lunsford Emory Bennett, B. D., Drew Theol. Sem., 1894.—Clergyman, Balt.

Arthur Fisher Bentley, (F), Ph. D., 1895, late Docent, Univ. of Chicago.—Journalist, Chicago.

George Edward Boynton.—Instructor, High School, Brooklyn.

Thomas Richardson Brown, M. D., 1897.—Physician, Balt.; Chief of Med. Clinic, J. H. Dispensary; Assoc. Prof., Coll. of Phys. and Surg.

Alfred Cookman Bryan, Ph. D., 1896.—Instructor in Economics, Washington High School.

Charles Weathers Bump.—Editor, Balt.

William Calvin Chesnut, LL. B., Univ. of Md., 1894.—Atty. at Law, Balt.

John Edwin Davis, LL. B., Univ. of Md., 1895.—Atty. at Law, Balt.

Henry Haywood Glassie.—Atty. at Law, Washington.

Leon Emanuel Greenbaum, LL. B., Univ. of Md., 1895.—Atty. at Law, Balt.

James Wesley Harvey, Jr., LL. B., Univ. of Md., 1893.—Baltimore.

William August Haussman, (F), Ph. D., 1895.—Instructor in German, High School, Allegheny, Pa.

Jose Lewis Hirsh, M. D., Univ. of Md., 1895.—Physician, Balt.; Demonstrator, Univ. of Md.

Morris James.—Classical Instructor, High School, Berkeley, Cal.

Hugh Judge Jewett, Jr., LL. B., Univ. of Md., 1894.—Atty. at Law, Balt.

Theodore Woolsey Johnson, M. E., Stevens Inst., 1896.—Prof. of Mechanical Eng., U. S. Naval Academy.

John Holladay Latané, Ph. D., 1895, Lecturer, 1898-99.—Prof. of History, etc., Randolph-Macon Woman's Coll., Va.

Edward Jaquelin L'Engle.—Atty. at Law, Jacksonville, Fla.

Earl Perkins Lothrop, M. D., Niagara Univ., 1894.—Physician, Buffalo, N. Y.

Charles Whitney Mixter, A. M., Harvard, 1893, Ph. D., Harvard, 1897, Assistant in Economics, Harvard, 1896-98.

Walter Alexander Montgomery, Ph. D., 1899.—Instructor, Univ. of Ark., 1899-1900.—Acting Prof. of Greek, Miss. Univ.

James Flack Norris, (F), Ph. D., 1892.—Asst. Prof. of Chemistry, Mass. Inst. of Tech.

Thomas Dobbin Penniman, Ph. D., 1898.—Baltimore.

Charles William Peppler, (F), Ph. D., 1898.—Prof. of Greek, Emory Coll., Ga.

Albert Moore Reese, Ph. D., 1900.—Graduate Student.

William Miller Roberts, M. D., Univ. of Md., 1897.—Physician, Balt.

Abram Barr Snively, M. D., Univ. of Pa., 1895.—Physician, Waynesboro, Pa.

John Sargent Stearns, M. D., Georgetown, 1894.—Physician, Washington.

Charles Daniel Steenken, M. D., Phys. and Surg. (N. Y.), 1896.—Physician, Balt.

Leopold Stern.—Baltimore.

Lester Latham Stevens, LL. B., Univ. of Md., 1894.—Atty. at Law, Balt.

Gustav Lûrman Stewart.—Baltimore.

John Stewart.—Baltimore.

Redmond Conyngham Stewart, LL. B., Univ. of Md., 1894.—Atty. at Law, Balt.; Member, Md. House of Delegates.

Arthur Bertram Turner.—Prof. of Mathematics, Temple Coll., Phila.

Harold John Turner, Ph. D., 1899.—Prof. of Chem. and Geology, Western Md. Coll.

Richard Henry Wilson, Jr., Ph. D., 1898, Instructor, 1898-99.—Prof. of Romance Lang., Univ. of Va. (41)

1893.

John Robert Abercrombie, M. D., Univ. of Md., 1895.—Physician, Balt.

Adolph Hall Ahrens.—Baltimore.

Theodore George Ahrens.—Architect, Balt.

Delaware Clayton Andre, LL. B., Univ. of Md., 1894.—Atty. at Law, Balt.

Frank Andrews.—Teacher, Darnestown, Md.

William Steenbergen Blackford.—Baltimore.

George Stewart Brown, LL. B., Univ. of Md., 1895.—Atty. at Law, Balt.

William Lawrence Clark.—Baltimore.

Rev. Frank Angier Clarke, Professor, Keachie Coll., 1893-94.—Student, Crozier Theol. Sem.

Edward Lowell Cox.—Atty. at Law, Parkersburg, W. Va.

Noah Ernest Dorsey, (F), Ph. D., 1897.—Associate in Physics.

Howard Blake Dowell, LL. B., Univ. of Md., 1895.—Atty. at Law, Balt.

John Hooper Edmondson, LL. B., Univ. of Md., 1895.—Atty. at Law, Balt.

Henry Simpson Greenleaf, M. D., Univ. of Pa., 1895.—Res. Physician, American Hosp., Peking.

Wilmot Griffiss.—Baltimore.

Louis Philip Hamburger, M. D., 1897.—Physician, Balt.; Asst. in Medicine.

John Hampden Hazelton.—Atty. at Law, Washington.

Lloyd Lowndes Jackson, Jr., LL. B., Univ. of Md., 1895.—Atty. at Law, Balt.

Millard Langfeld, M. D., 1898.—Prof. of Bacteriology and Hygiene, Creighton Med. Coll., and Physician, Omaha.

John Leypold Griffith Lee, LL. B., Univ. of Md., 1894.—Atty. at Law, Balt.

Jacob Moses Moses, LL. B., Univ. of Md., 1895.—Atty. at Law, Balt.; State Senator.

Clayland Mullikin, LL. B., Univ. of Md., 1893.—Atty. at Law, Easton, Md.

Charles Watson Newhall.—Mathematical Master, Shattuck School, Faribault, Minn.

Frederick Bogue Noyes, D. D. S., Northwestern.—Prof. of Histology, Dental Dept., Northwestern Univ.

Eugene Lindsay Opie, (F), M. D., 1897.—Instructor in Pathology.

Charles Bingham Penrose, Jr., LL. B., Univ. of Md., 1898.—Atty. at Law, Balt.

Clement Andariese Penrose, M. D., 1897.—Physician, Balt.

Charles Carroll Schenck.—Grad. Student.

Siegmund Bacharach Sonneborn.—Merchant, Balt.

Morris Ames Soper, LL. B., Univ. of Md., 1895.—Asst. U. S. District Atty., Balt.

Francis Edgar Sparks, Ph. D., 1896.—Archivist, Md. Hist. Society.

Alfred Earnest Speirs, Instructor, Lehigh Univ. Prep. School, 1893-94.—Chicago, Ill.

Hugo Paul Thieme, Ph. D., 1897.—Asst. Prof., Earlham Coll., 1897-98.—Instructor in French, Univ. of Mich.; Lecturer, 1900-1901.

Douglas Hamilton Thomas, Jr.—Architect, Balt.

Edwin Litchfield Turnbull.—Baltimore.

Rev. John Ogle Warfield, B. D., Episcopal Theol. Sem., Camb., 1896.—Clergyman, Philadelphia.

Henry Skinner West, (F), Ph. D., 1899, Professor, Balt. City Coll., 1894-97, and 1900, Instructor in English, 1899-1900.—Principal, Western High School, Balt.

Frederick Wallace Wilson.—Atty. at Law, The Dalles, Oregon.

Leo Wolfenstein.—Cleveland, O.

William Hamilton Kirk, (*extra ordinem*), (F), Ph. D., 1895, Instructor, Vanderbilt, 1895-1900.—Classical Instructor, Rutgers.

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1894.

John Griffith Ames, Jr., Prof. of English, Kenyon, 1895-97.—Washington, D. C.

William Stevenson Baer, M. D., 1898.—Physician, Balt.; Asst. in Orthopaedic Surgery.

Rev. Adolph Elhart Baker, Union Theol. Sem., Va., 1897.—Clergyman, Sykesville, Md.

Walter Baumgarten, M. D., Washington Univ., 1896, Asst. in Physiology, Harvard, 1897-98.—Physician, St. Louis, Mo.

Arthur Henry Baxter, Ph. D., 1898.—Instructor in French, Amherst.

Ernest Julius Becker, Ph. D., 1898.—Instructor in French and German, Richmond Coll.

Thomas Pumphrey Benson, M. D., Univ. of Md., 1898.—Physician, Balt.

Thomas Fitz Patrick Cameron, Teacher, Funkstown, Md., 1896-97.—Baltimore.

Moses S. Cohen, LL. B., Univ. of Md., 1896.—Atty. at Law, Balt.

Bernard Milton Cone, A. M., Columbia, 1896, and LL. B., 1897.—Atty. at Law, N. Y.

Charles Angelo Conrad, LL. B., Univ. of Md., 1897.—Atty. at Law, Balt.

Walter Cox, M. D., Balt. Univ., 1898.—Asst. Surg., U. S. Marine Hosp. Service.

Percy Millard Dawson, (F), M. D., 1898.—Instructor in Physiology.

Eli Frank, LL. B., Univ. of Md., 1896.—Atty. at Law, Balt.

Nathaniel Edward Griffin, Ph. D., 1899, Instructor, Iowa Univ., 1899-1900.—Prof. of English, Wells Coll., N. Y.

Benjamin Howell Griswold, Jr., LL. B., Univ. of Md., 1897.—Atty. at Law, Balt.

Richard Jordan Hancock, Jr.—Atty. at Law, Atlanta, Ga.

Stephen Cloud Harry.—Mathematical Instructor, Friends' School, Balt.

Thomas Wood Hastings, M. D., 1898.—Physician, N. Y.

Rev. Conrad Augustine Hauser, Lancaster (Pa.) Theol. Sem., 1897.—Clergyman, Frostburg, Md.

Herman Frederick Krafft, LL. B., Columbia, 1898.—Atty. at Law, N. Y.

Harry Taylor Marshall, (F), M. D., 1898.—Asst. in Pathology.

George Stevens Maynard, Proficient in Electricity, 1896.—Gen. Electric Co., Schenectady, N. Y.

Louis Wardlaw Miles, M. D., Univ. of Md., 1897.—Graduate Student.

William Albert Nitze, (F), Ph. D., 1899.—Lecturer in Romance Lang., Columbia.

James Piper, LL. B., Univ. of Md., 1897.—Atty. at Law, Balt.

John Eugene Howard Post.—Baltimore.

John Hurst Purnell.—Merchant, Balt.

Milton Reizenstein, Ph. D., 1897.—Asst. Agent, Baron Hirsch, Foundation, N. Y.

Frank Roy Rutter, (F), Ph. D., 1897.—U. S. Dept. of Agriculture.

Simon H. Stein, LL. B., Univ. of Md., 1896.—Atty. at Law, Balt.

Emerson H. Strickler.—Chemist, Balt.

Joseph Pembroke Thom, Jr.—Baltimore.

Rev. George Harvey Trull, B. D., Princeton Theol. Sem., 1897.—Clergyman, Wilmington, Del.

Clinton Gambrill Tudor.—Civil Engineer, Sault Ste. Marie, Mich.

Malcolm Van Vechten Tyson, LL. B., Univ. of Md., 1897.—Atty. at Law, Balt.

Horace Scudder Uhler, Instructor, Northwestern Univ., 1896-97.—Science Master, Univ. School, Balt.

George Talbot Whitfield.

Pere Lethrbury Wickes, Jr.—Atty. at Law, Balt.

*Chester Clark Wood. **September* 11, 1895.

James Curtis Ballagh, (*extra ordinem*), Ph. D., 1895.—Associate in History.

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1895.

Wilbur Withrow Ballagh.—Tenafly, N. J.

William Sherman Bansemer, LL. B., Univ. of Md., 1897.—Atty. at Law, Balt.

Harry Bissing, Proficient in Electricity, 1896.—Electrician, N. Y.

Hanson Briscoe Black.—1st Lieut., U. S. A., Ft. Riley.

Rev. Charles Henry Hardin Branch, B. D., Princeton Theol. Sem., 1898.—Clergyman, Collinsville, Ill.

George Dobbin Brown, (F).—Fellow.

Lawrason Brown, M. D., 1900.—Physician, Saranac Lake, N. Y.

Humphrey Warren Buckler, M. D., 1899.—Physician, Balt.; Asst. in Obstetrics.

William Mack Chowning, S. B., Knox, 1894.—Student of Medicine, Univ. of Michigan.

Charles Bevan Clark, S. B., Mass. Inst. of Tech., 1897.—Asst. Engineer, Southern Railway, Washington, D. C.

Gilbert Abraham Coblens.—Baltimore.

Reuben Carll Foster, LL. B., Univ. of Md, 1897.—Atty. at Law, Balt.

Frank Taylor Fulton, S. B., Knox, 1894, M. D., 1899.—Pathologist, R. I. General Hosp., Providence.

*James Daton Gallagher, M.D., 1899. **April 1, 1901.*

George Herbert Gray.—Architect, N. Y.

Milton Daniel Greenbaum, LL. B., Univ. of Md., 1897.—Atty. at Law, Balt.

Roland Bridendall Harvey, LL. B., Univ. of Md., 1896.—Atty. at Law, Balt.

George Oscar James, (F), Ph. D., 1899, Instructor, Univ. of Utah, 1896-97.—Lecturer in Mathematics, Columbian Univ.; Civil Service Examiner; Fellow by Courtesy.

Stuart Symington Janney.—Baltimore.

Marcus Kaufman, LL. B., Univ. of Md., 1897.—Atty. at Law, Balt.

Charles Alexander Kilvert.—Boston, Mass.

Ernest Pendleton Magruder.—Instructor in English Lit., Washington.

Edward Spiller Oliver, M. D., 1900.—Physician, Saranac Lake, N. Y.

John Donaldson Parker, LL. B., Univ. of Md, 1897.—Atty. at Law, Balt.

David Sterrett Pindell, Proficient in Electricity, 1897.—Electrician, Balt.

Jacob Hall Pleasants, Jr., M. D., 1899.—Physician, Balt.; Clinical Asst., J. H. Dispensary; Assoc. Prof., Coll. of Phys. and Surg.

Rev. Gustav Rudolph Poetter, Lancaster (Pa.) Theol. Sem., 1898.—Clergyman, Martinsburg, W. Va.

John Andrew Robinson, LL. B., Univ. of Md., 1897.—Atty. at Law, Balt.

Sylvan Rosenheim, M. D., 1899.—Physician, Balt.; Clinical Asst., J. H. Dispensary.

Charles Albert Savage.—Instructor in Latin, Univ. of Minnesota.

Edgar Randolph Strobel, M. D., 1899.—Physician, Balt.; Clinical Asst., J. H. Dispensary.

Robert McIlvaine Torrence.—Washington, Pa.

Campbell Easter Waters, Ph. D., 1899.—Prof. of Chemistry, Conn. Agric. Coll.

Arthur Charles Watkins.—Student, Union Theol. Seminary, N. Y.

Henry Abel Whitaker.—Attorney at Law, Belair, Md.

William Whitridge Williams, M. D., 1899.—Asst. in Pathology, Univ. of Prague.

William Wingert, LL. B., Univ. of Md., 1897.—Atty. at Law, Hagerstown.

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1896.

Thomas Sewell Adams, (F), Ph. D., 1899.—San Juan, Porto Rico.

Cornelius Beatty.—Science Instructor, Des Moines Coll.

Augustus Caesar Binswanger.—Atty. at Law, Balt.

Charles Edward Caspari, (F), Ph. D., 1900.—Asst. in Organic Chemistry, Columbia.

Clarence Carroll Clark.—Graduate Student, Yale.

Rev. Frank Wilbur Collier.

Rev. Charles Edward Diehl, Princeton Theol. Sem., 1900, A. M., Princeton, 1900.—Clergyman, Crescent Springs, Ky.

William Reginald Dorsey.—Atty. at Law, Balt.

George Dyre Eldridge, Jr., LL. B., Columbia, 1900.

Rev. Albert Dale Gantz, B. D., Princeton Theol. Sem., 1899.—Clergyman, N. Y.

Alfred Dearing Harden.

William Faithful Hendrickson, M. D., 1900.—Demonstrator of Pathol., Univ. of Pa.

*Frank Holmes Johnson. **June 20, 1896.*

Charles Harwood Knight.—Cleveland, O.

William Kurrelmeyer, (F), Ph. D., 1899, Prof., Franklin and Marshall, 1899-1900.—Asst. in German.

Robert Lacy, S. B., Mass. Inst. of Tech., 1898.—Civil Engineer, Balt.

Henry Lanahan.—Prof. of Physics, Md. Agric. Coll.

Monroe Luchs.—Washington, D. C.

Arthur Webster Machen, Jr., LL. B., Harvard, 1899.—Atty. at Law, Balt.

Richard Elliott Marine.—Asst. Examiner, U. S. Patent Office.

Henry Pickering Parker.—Student of Medicine.

Albert Cabell Ritchie, LL. B., Univ. of Md., 1898.—Atty. at Law, Balt.

Louis Rosenbaum, LL. B., Univ. of Md., 1898.—Atty. at Law, Balt.

Glanville Yeisley Rusk, M. D., 1900—House Officer, J. H. Hosp.

Laurence Frederick Schmeckebier, (F), Ph. D., 1899.—U. S. Geological Survey.
James Eustace Shaw, (F), Ph. D., 1900.—Instructor in Italian.
St. George Leakin Sioussat, Ph. D., 1899.—Instructor in History, Smith Coll.
Alexander Raymond Stevens.—Student of Medicine.
Rev. John Wesley Richardson Sumwalt.—Clergyman, Frostburg, Md.
John Hanson Thomas, LL. B., Univ. of Md., 1897.—Atty. at Law, Balt.
Charles Burnet Torsch.—Baltimore.
James McConkey Trippe, LL. B., Univ. of Md., 1898.—Atty. at Law, Balt.
Charles William Waidner, (F), Proficient in Electricity, 1892, Ph. D., 1898, Asst., 1898-99.—Instructor in Physics, Williams Coll.
William Fisher Wallis.—Mathematical Instructor, Milton Acad., Balt.
Frederick Howard Warfield, LL. B., Univ. of Md., 1899.—Atty. at Law, Balt.
Rev. John Armistead Welbourn, A. M., Columbian, 1898, Va. Theol. Sem., 1899.—Missionary in Japan.
John Montgomery West.—Student of Medicine. (37)

1897.

Herbert Henry Adams, C. E., Mass. Inst. of Tech., 1899.—Civil Engineer, Detroit.
Frederick Henry Baetjer.—Student of Medicine.
Frank Ringgold Blake, (F).—Fellow.
Edward Lingan Bowlus.—Instructor in Biology, Mt. Union Coll., O.
Charles Keyser Edmunds, Acting Prof., Univ. of Utah, 1898-99.—Instructor in Physics, High School, Washington.
Howard Main Gassman, Instructor, Ursinus Coll., 1897-99.—Graduate Student, Lehigh.
Neil Duncan Graham.—Medical Student.
Charles Saloman Guggenheimer.—Atty. at Law, N. Y.
Frank Arnold Hancock.—Demonstrator of Chemistry, Univ. of Md.
Landry Harwood.
Eugene de Forest Heald, Jr.—Washington.
Michael Ernest Jenkins, LL. B., Harvard, 1900.—Atty. at Law, Balt.
Harry M. Kaufman.—Student of Medicine.
Rev. Frank Albert Killmon.—Clergyman, Belair, Md.
Rev. John Edgar Knipp, Union Biblical Sem. (O.), 1900.—Teacher, Doshisha Kyoto, Japan.
Theodore Morgan Leary.—Baltimore.
William Strobel Levy.—Atty. at Law, Balt.
Warfield Theobald Longcope.—Student of Medicine.
Charles Edward Lyon.—Graduate Student.
Henry Clay McComas, Jr., A. M., Columbia, 1898, Union Theol. Sem., N. Y., 1900.—Clergyman, N. Attleboro, Mass.
George Lovic Pierce Radcliffe, Ph. D., 1900.—Instructor, High School, Cambridge, Md.
Herbert Meredith Reese, (F), Ph. D., 1900.—Asst., Lick Observatory.
Alexander Henry Schulz, Jr.—Baltimore.
John Frederick Schunck.—Student of Divinity, Philadelphia.
*Henry Plant Shuter. **October* 17, 1898.
Josiah Morris Siemons.—Student of Medicine.
Samuel Hamilton Spragins.—Prof. of Greek and Latin, Ward's Sem., Nashville.
Albert Louis Steinfeld.—Medical Student.
James McIlhany Thomson.—Washington.
Albert James Underhill.—Student of Medicine.
Louis Marshall Warfield.—Student of Medicine.
George William Warren.—Student of Medicine.
David Emrich Weglein.—Mathematical Instructor, Teachers' Training School, Balt.
Dudley Williams.—Student of Medicine.
Henry Merryman Wilson.—Instructor, Agric. and Mech. Coll. of N. C., Raleigh.
Charles Knickerbacker Winne, Jr.—Student of Medicine. (36)

1898.

Zadok Marshall Ballard.—Baltimore.
Robert Ernest Belknap.—Yonkers, N. Y.
Odin Baltimore Bestor.—Marlinton, W. Va.
Duncan Kenner Brent.—Student of Law, Univ. of Md.
Bennet Bernard Browne, Jr.—Student of Medicine.
George Miltenberger Clarke.—Atty. at Law, New York.
Henry Wireman Cook.—Medical Student.
Rev. Albert Charles Dieffenbach, Lancaster (Pa.) Theol. Sem., 1901.
Gustavus Charles Dohme.—Student of Medicine.
Ralph Duffy.—Student of Medicine.
James F. Ferguson.—Baltimore.
John Somerville Fischer.—Student of Medicine.
Thomas Fitzgerald, Jr.—Electrician, N. Y.
Lawrence Hall Fowler.—Student of Architecture, Columbia.

William Willoughby Francis.—Student of Medicine.
William Cazenove Gardner.—Passaic, N. J.
Alexander Gordon, Jr.—Student of Law, Univ. of Md.
William Browne Hammond, Jr.—Student of Law, Univ. of Md.
Philip Warner Harry.—Graduate Student.
Leonard Keene Hirshberg.—Student of Medicine.
Conway Shaler Hodges.—Pittsburg, Pa.
William Randle Hubner.—Student of Law, Univ. of Md.
Robert Henry Jones.—Student of Law, Univ. of Md.
Charles Wesley Kalb.—Teacher, Oakland Mills, Md.
James Alfred Kennard.—Student of Law, Univ. of Md.
Louis Charles Lehr.—Student of Medicine.
Henry John Lucke.—Instructor in Mathematics, Lafayette Coll.
David Gregg McIntosh, Jr.—Student of Law, Univ. of Md.
Frank Oldham Miller.—Student of Medicine, Univ. of Md.
Raymond Durbin Miller.—Graduate Student.
Solomon Brenner Myers.—Student of Law, Univ. of Md.
Harold Pender—Graduate Student.
Thomas Lindley Pyle.—Graduate Student.
Vincent Adams Renouf.—Instructor, Latin School, Roxbury, Mass.
George Barr Scholl.—Student of Medicine.
Alexander Lazear Seth.—Atty. at Law, Baltimore.
Frederick Williamson Smith.
Robert Marsden Smith, LL. B., Univ. of Md., 1900.—Student of Law, Harvard.
Victor Edgeworth Smith.—Graduate Student.
Charles Miner Stearns.—Graduate Student, Harvard.
Leo D. Stein.—Florence, Italy.
William Plunket Stewart.—Baltimore.
Albert Gad Stidman.—Graduate Student.
William Ellinger Straus.—Baltimore.
Joseph Nathan Ulman, A. M., Columbia, 1900.—Atty. at Law, Balt.
John Boswell Whitehead, Proficient in Electricity, 1898.—Associate in Electricity.
Powhatan Johnson Wooldridge.—Louisville, Ky.
Jacob Forney Young.—Baltimore.
Rev. Charles Smith Lewis (*extra ordinem*), S. T. B., Gen. Theol. Sem. (N. Y.), 1895.—Fellow, Gen. Theol. Seminary.

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1899.

James Robert Charlton Armstrong, Proficient in Electricity, 1899.—General Electric Co., Schenectady.
George Diuguid Davidson.—Prof. of Modern Lang., Southwest Va. Inst., Bristol.
Henry Carter Downes.—Student of Law, Univ. of Md.
Ferdinand Colquhoun Fisher.—Baltimore.
Walter Melvin Fooks.—Baltimore.
Eddy Burke Fosnocht.—Instructor in Modern Lang., Nyack (N.Y.) Military Acad.
Simon Walter Frank.—Student of Law, Univ. of Md.
John Calvin French.—Graduate Student.
Charles Carter Gaddess.—Baltimore.
John Reed Gemmill.—Baltimore.
Harry Seliger Greenbaum.—Student of Medicine.
Robert Harold Grimes.—Student of Law, Harvard.
Clarence Maurice Guggenheimer.—Student of Law, Harvard.
Hugh Sisson Hanna.—Graduate Student.
Stephen Paul Harwood.—Baltimore.
Louis Wardlaw Haskell, Jr.—Student of Medicine.
Talbot Dickson Jones.—Teacher, St. Denis, Md.
Leon Lewis Joyner.—Student of Law, Univ. of Md.
Karl Jungbluth, Jr.—Louisville, Ky.
John Albert Kalb.—Scranton, Pa.
John Hendricken King.—Graduate Student.
George Wroth Knapp, Jr.—Student of Law, Harvard.
Walter Marshall Krager.—Baltimore.
Herman Kurrelmeyer.—University Scholar.
*Joshua Levering, Jr. **August* 23, 1900.
James Morfit Mullen.—Baltimore.
Philip Austen Murkland.—Student of Law, Univ. of Md.
Edward Livingston Palmer, Jr.—Baltimore.
John Howard Palmer.—Baltimore.
Charles Mallory Remsen.—Student of Medicine.
Lawrence Anton Reymann.—Student of Law, Univ. of Va.
Edward Ayrault Robinson, Jr.—Student of Law, Univ. of Md.

George Canby Robinson.—Student of Medicine.
William Leavell Ross.—Pittsburg, Pa.
Edwin Albert Spilman.—Baltimore.
René de M. Taveau.—Graduate Student.
Richard Henry Thomas.—Chemist, Balt.
Ottomar Siegmund Werber.—Baltimore.
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1900.

Roger Brooke Taney Anderson.—Student, Gen. Theol. Sem., N. Y.
Howard Baetjer.—Student, Mass. Inst. of Tech.
Christian John Beeuwkes.—Student of Law, Univ. of Md.
Henry Bogue.—Baltimore.
Byron Noble Bouchelle.—Baltimore.
Austin Adams Breed.—Cincinnati, O.
Charles Edward Brooks.—Univ. Scholar.
Edward Skipwith Bruce.—Baltimore.
James Luther Albert Burrell.—Student in Munich.
Rev. Lyttleton Morgan Chambers.—Clergyman, Summerfield, Md.
Christopher Thompson Clark.—Washington, D. C.
McQuilkin DeGrange.
John Howard Eager.—University Scholar.
John Edward Ewell.—Frederick, Md.
Frederick Bonner Flinn.—Newark, N. J.
Frederick Foster.—Baltimore.
Otto Charles Glaser.—Graduate Student.
Joseph David Greene.—Teacher, Watertown, N. Y.
John Wheeler Griffin.—Student of Law, Harvard.
Stuart Heyman.—Student of Law, Univ. of Md.
Harry Dickinson Hill.—Graduate Student.
John Philip Hill.—Student of Law, Harvard.
Edward Pechin Hyde.—University Scholar.
Albert Keidel.—Student of Medicine.
Robert Clark Kerr.—Baltimore.
Maurice Lazenby.—Student of Medicine.
Donald Macy Liddell.—Baltimore.
Norvin Rudolf Lindheim.—Student of Law, Columbia.
Leonard Leopold Mackall.—Student of Law, Harvard.
T. Hartley Marshall.—Baltimore.
Reginald Ley McAll.—Baltimore.
Jared Sparks Moore.—Jamaica, W. I.
James Girvin Peters.—Baltimore.
Tobias Noël DeLoughmoe Purcell.—Baltimore.
Robert Bruce Roulston.—Univ. Scholar.
Frank Peyton Rous.—University Scholar; Student of Medicine.
James Edward Routh.—Hopkins Scholar.
Alexander Van Rensselaer Schermerhorn.—Student of Law, Univ. of Md.
Wilson Levering Smith.—Student at Columbia.
Miltenberger Neale Smull.—Graduate Student.
James Carlyle Stephens.—Norfolk, Va.
George Lane Taneyhill, Jr.—Student of Medicine.
Bayard Turnbull.—Baltimore.
Miller Wingert.—Student of Law, Balt.
Nathan Winslow, M. D., Univ. of Md., 1901.—Physician, Balt.
Arthur Wright.
(46)
(666)

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11. Proficients in Applied Electricity.

(When the institution is not named, this university is to be understood. (F) indicates that the person has held a fellowship here. *—Died.)

1889.

Cary Talcott Hutchinson, (F), Ph.B., Washington Univ., 1886, Ph. D., 1889, Acting Assoc. Prof. of Electricity, 1898-99.—Consulting Engineer, N. Y.
Joseph Lee Jayne, U. S. Naval Acad., 1882.—Lieutenant, U. S. Navy; Bureau of Electricity, Navy Dept., Washington.
Henry Hazlehurst Wiegand, A. B., 1885.—Electrical Engineer, Balt.
Gilbert Wilkes, U. S. Naval Acad., 1881, Lecturer, Univ. of Wis., 1892-94.—Consulting Electrical Engineer, Detroit.
(4)

1890.

William Julian Albert Bliss, A. B., Harvard, 1888, Ph. D., 1894, Assistant, 1890-91, 1895-97, Lecturer, 1894-95, Instructor, Woman's Coll., Balt., 1894-95.—Associate in Physics.
James Shaler Hodges, A. B., 1886.—Electrical Engineer, Balt.
(2)

1892.

*Ezra Carl Breithaupt. **January* 27, 1897.
William Hand Browne, Jr. A. B., 1890, Instructor, Univ. of Neb., 1896-98.—Asst. Prof. of Electricity, Univ. of Ill.

*Henry Wakefield Frye, A.B., Colby, 1889. **June* 20, 1895.
George Henry Hutton, Jr.—Baltimore.
Robert Ernest Hutton.—Instructor in Electricity, Washington and Lee Univ.
Norman Crawford McPherson, A. B., Pa. Coll., 1889.—Hagerstown, Md.
Hugh Pattison.—Sprague Electric Co., N. Y.
Charles William Waidner, (F), A. B., 1896, Ph. D., 1898, Assistant, 1898-99.—Instructor in Physics, Williams Coll.
Arthur Judson Warner, A. B., Marietta, 1889. (9)

1893.

Louis Minturn Aspinwall.—Westinghouse Electric Co., Pittsburg.
Shellman Baer Brown, A. B., 1891.—Railroad Supt., Annapolis, Md.
Sidney Hand Browne, A. B., 1891.—Electrical Engineer, Balt.
Eugene Russell Carichoff, A. M., Washington and Lee, 1885.—Sprague Electric Co., N. Y.
Howard Waters Doughty.—Special Student.
Harold Mills Dyar, Ph. B., Marietta, 1888.—Electrical Engineer, Marietta, O.
Irenus Kittredge Hamilton, S. B., Trinity (Conn.), 1891.—Chicago, Ill.
William Winder Handy, S. B., Haverford, 1891.—Baltimore.
Charles Roy McKay.—Sprague Electric Co., New York.
William Robinson Molinard.—Manila, P. I.
Arthur Lacy Reese. **March* 12, 1894.
Arthur John Rowland.—Professor of Electrical Engineering, Drexel Inst.
William Frederick Schulz, E. E., Univ. of Ill., 1900.—Urbana, Ill.
Robert Isaac Todd.—Electrical Engineer, Pittsburg.
John Boswell Whitehead, Jr., A. B., 1898.—Associate in Electricity. (15)

1894.

William Pierce Anderson, A. B., Harvard, 1892.
John Woodside Corning.—Electrician, Boston, Mass.
Lewis Warrington Cottman.—Baltimore.
Harvey Cavendish Darrell.—Baltimore.
Peter Conover Hains, Jr., U. S. Naval Acad., 1893.—Baltimore.
Stephen Quentin Hayes, A. B., Georgetown (D. C.), 1892.—Westinghouse Co., Pittsburg.
Douglas Alexander Howard, U. S. Military Acad., 1878.—Captain (retired), U. S. A.
Andrew Ellicott Maccoun.—Electrician, Carnegie Steel Co., Pittsburg.
James Warren McCrosky, S. B., Univ. of Neb., 1891.—Electrician, Buenos Ayres.
Henry Hutchinson Norris.—Instructor in Electricity, Cornell Univ.
Charles Edward Phelps, Jr.—Chief Engineer, Electrical Subways, Balt.
Alfred Magill Randolph, Jr., A. B., 1891.—Electrical Engineer, Pittsburg.
Samuel Reber, U. S. Mil. Acad., 1886.—Capt., U. S. A.; Instructor, Signal Service, U. S. Army.
Franklin Roberts.—Baltimore.
Theodore Straus.—Baltimore.
John Saunders Taylor.—Atty. at Law, Norfolk, Va.
Frank McStocker Thomas.—Electrician, Philadelphia.
Wallace Durant White—Electrical Engineer, N. Y.
James Watts Young.—Electrician, N. Y. (19)

1895.

Harry Bissing, A. B., 1895.—Electrician, N. Y.
Byron Briggs Brackett, A. B., Syracuse, 1890, Ph. D., 1897, Instructor, Union Coll., 1897-98, Washington High School, 1898-1900.—Baltimore.
Benjamin Harrison Branch.—General Electric Co., Schenectady.
Edson Fessenden Gallaudet, A. B., Yale, 1893, Ph. D., 1896, Instructor, Yale, 1896-1900.—Engineer, Cramp Works, Phila.
George Henry Hill, A. B., Williamsport Dickinson Sem., 1891.—Sprague Electric Co., N. Y.
Alexander McIver, Jr., A. B., Univ. of N. C., 1890.—Sprague Electric Co., N. Y.
Joseph Mullen, Jr.—Electrical Engineer, Petersburg, Va.
Charles Reutlinger.—Electrician, Balt.
John Jacob Rothermel, A. B., Franklin and Marshall, 1893.—Instructor in Physics, Washington High School.
Frank Semple Wilcox, S. C. Mil. Acad., 1893. (10)

1896.

Matthew Maury Corbin.—General Electric Co., Schenectady.
Isidor Deutsch.
Hugh Miller Frazer, S. B., Ky. State, 1889.—Electrician, Lexington, Ky.
James Holdsworth Gordon, Jr.—Electrician, New York.

Horace Marshall Harriman, Jr.—Electrician, Balt.
Malcolm Westcott Hill.—Electrician, Balt.
George Harwood Hodges. — N. Y. Telephone Co.
Jasper Alan McCaskell, S. B., Loyola, 1895, E. M., Columbia, 1900.
George Stevens Maynard, A. B., 1894.—General Electric Co., Schenectady.
Henry Todd Powell.—Electrician, Balt.
Charles Leonard Reeder.—Consulting Engineer, Balt.
Martin Schwab.—Electrician, Balt.
James Mowton Saunders Waring.—Electical Engineer, Balt. (13)

1897.

Wyatt Hamilton Allen, Ph. B., Yale, 1896.—Electrician, N. Y.
Joseph Hockman Bowman, A. B., Franklin and Marshall, 1893, Instructor in Physics, Trinidad, Colo., 1897-98.
Walter Herman Eisenbrandt.—Electrician, Balt.
David Sterrett Pindell, A. B., 1895.—Electrician, Balt. (4)

1898.

George Edward Bartell.—Baltimore.
William Burke Brady, M. E., Lehigh, 1897.—Electrical Engineer, Brooklyn.
Edmund Frank, S. B., Rose Polytechnic, 1897.—General Electric Co., Schenectady.
William Schofield Gorsuch, Jr.—Electrician, Balt.
Richard Cameron Haldeman, A. B., Yale, 1896.—Westinghouse Co., Pittsburg.
William Lemmon Hodges. — Electrician, Balt.
Ferdinand Brauns Keidel.—General Electric Co., Schenectady.
Bertram Motter Kershner.
Charles J. Spencer.—General Electric Co., Schenectady. (9)

1899.

James Robert Charlton Armstrong, A. B., 1899.—General Electric Co., Schenectady.
Robert Buchanan Beale, S. B., Md. Agric., 1896.—General Electric Co., Schenectady.
Reinier Koller Beeuwkes.—General Electric Co., Schenectady.
William Trout Everett.
James William Swaine.—Baltimore. (5)

(90)

12. Libraries.

1. The University Library numbers 100,000 bound volumes, selected with special reference to the instruction here given. It is arranged in several collections, of which these are the chief:

General Reference.	Oriental Languages.
Historical and Political.	Modern Languages.
Mathematical and Physical.	The McCoy Art Library.
Chemical.	Library of Southern History.
Biological.	Medicine.
Classical.	Physiology and Anatomy.

The reference library and reading room is open daily from 9 a.m. to 6 p.m.; the other rooms in accordance with special regulations.

The Library receives the publications of the leading scientific societies of the world and the chief literary and scientific periodicals. The whole number of serials received exceeds one thousand. This list is supplemented by those of the Peabody Institute and other institutions, so that the whole number of journals accessible (exclusive of ephemeral publications) exceeds twelve hundred. Important books are received by the library as soon as published, by purchase or by the courtesy of dealers.

2. The Peabody Library is a choice collection of books purchased since 1866. It is particularly full in academic transactions, long historical series, and costly illustrated books. It numbers 135,000 volumes, well bound, catalogued, and arranged. It is open daily, without charge, from 9 a.m. to 10.30 p.m.

3. The Enoch Pratt Free Library numbers 200,000 volumes, and is open daily, without charge.

4. The Maryland Historical Society Library contains 30,000 volumes of historical works, and is open daily.

5. Other libraries of Baltimore are the New Mercantile Library (67,000 volumes), the Bar Library (16,500 volumes), the Medical and Chirurgical Library (14,000 volumes), the Maryland Episcopal Library (25,000 volumes), and the Library of the Maryland Institute (23,000 volumes).

6. Washington is so near that its museums and libraries may be easily visited. Among the chief institutions of interest to students are these:

The Smithsonian Institution and National Museum.
The Library of Congress.
The Army Medical and Surgical Museum and Library.
The U. S. Coast and Geodetic Survey.
The U. S. Geological Survey.
The U. S. Naval Observatory.
The Libraries of the Departments and Bureaus.
The Corcoran Art Gallery.

13. Regulations of the Treasurer's Office.

I. The Treasurer's Office is open daily from 9 a. m. to 4 p. m.

II. All bills should be presented at that place, endorsed as correct by the person under whose authority the expense has been incurred.

III. No member of the Academic Staff is allowed to incur a bill in the name of the University, unless authority is given for the same by the Trustees, in advance—either as an item in the annual budget, or as a special appropriation. Blank forms of application are provided for special requisitions.

IV. Orders for books and apparatus to be imported from Europe will not be considered authorized, unless countersigned by the President or the Treasurer of the University.

All goods must be consigned to and addressed "Johns Hopkins University, Baltimore, Md." Goods for other parties (societies or individuals) must not be included in the University cases. Invoices, sworn to before the U. S. Consul, must be sent by mail, and a duplicate invoice by the following mail, both addressed to the Johns Hopkins University.

Unless otherwise ordered, goods from Europe should be sent as follows:

From Germany by the North German Lloyd steamers sailing for Baltimore from Bremen; from England by steamship lines from Liverpool to Baltimore; from France and Italy, via Havre and Liverpool.

Printed copies of instructions to shippers, which can be obtained at the Treasurer's Office, should in all cases be enclosed with the orders.

V. The Treasurer's Office will make purchases, at wholesale rates, of supplies which are required for the current needs of the University.

VI. Such pass books as are authorized by the Treasurer should be presented for balance and settlement every month.

VII. The wages of all persons employed by the University will be paid at the Treasurer's Office.

VIII. When C. O. D. packages are expected, previous arrangements should be made for their reception.

IX. Outlays made for individuals (express parcels, postage, telegraph messages, etc.) should be settled at once.

X. An annual allowance is made by the Trustees, in the budget, for such expenses as they approve, and in deciding on the items they are governed by a consideration of the general interests of the University, as well as by the needs of special branches of instruction. Balances to the debit or credit of any account are carried forward to the new account at the opening of each financial year (September 1). A statement of the amount of the balance and of any additional appropriation will be communicated to the parties severally interested, if requested, after the Trustees' meeting in October.

FRANCIS WHITE,
Treasurer.

14. PUBLICATIONS ISSUED AT THE JOHNS HOPKINS UNIVERSITY.

I. American Journal of Mathematics.

This journal was commenced in 1878, under the editorial direction of Professor Sylvester. Professor Frank Morley is now the Editor. Twenty-two volumes of about 400 pages each have been issued, and the twenty-third is in progress. It appears quarterly. Subscription $5 per year. Single numbers $1.50. The set of twenty-three volumes will be sold for one hundred and fifteen dollars.

II. American Chemical Journal.

This journal was commenced in 1879, with Professor Remsen as Editor. Twenty-four volumes of about 450 pages each have been issued, and the twenty-fifth is in progress. This journal appears monthly. Two volumes of six numbers and of about 500 pages each are issued yearly. Subscription $5 per year. Single numbers 50 cents.

III. American Journal of Philology.

The publication of this journal commenced in 1880, under the editorial direction of Professor Gildersleeve. Twenty-one volumes of about 500 pages each have been issued, and the twenty-second is in progress. It appears four times yearly. Subscription $3 per volume. Single numbers $1. The set of twenty-one volumes will be sold for sixty-three dollars.

IV. Studies from the Biological Laboratory.

The publication of these papers commenced in 1879, under the direction of Professor Martin, with the assistance of Professor W. K. Brooks. Five volumes of about 500 pages, octavo, and 40 plates each, have been issued.

V. Studies in Historical and Political Science.

The publication of these papers was begun in 1882, under the editorial direction of Professor H. B. Adams. Eighteen series are now completed and the nineteenth series is in progress. Twenty-two extra volumes have also been issued. Subscription $3 per volume. The set of nineteen regular series will be sold for fifty-seven dollars.

VI. Memoirs from the Biological Laboratory.

These monographs are issued under the editorial direction of Professor W. K. Brooks. Volume IV is now complete. Price for the set of four volumes thirty dollars.

VII. Johns Hopkins University Circulars.

The publication of these Circulars began in December, 1879, and 151 numbers have since been issued. Subscription $1.00 per year.

VIII. Contributions to Assyriology and Comparative Semitic Philology.

The publication of this journal was begun in 1889. Professor Paul Haupt, of the Johns Hopkins University, and Professor Friedrich Delitzsch, of the University of Berlin, are the editors. Volume IV is in progress. The set of three volumes will be sold for $22.50.

IX. The Johns Hopkins Hospital Reports.

These reports are edited by the Faculty of the Johns Hopkins Medical School and published for the Johns Hopkins Hospital. Their publication was begun in 1890. Volume X is in progress. Price $5 per volume. The set of nine volumes will be sold for fifty dollars.

X. The Johns Hopkins Hospital Bulletin.

The publication of these Bulletins began in 1889. They are published monthly. Volume XII is in progress. Subscription $1.00 per year. The set of twelve volumes will be sold for $22.50.

XI. Modern Language Notes.

This journal is edited by Professor A. M. Elliott and his associates in the Modern Language Department. It appears monthly. The sixteenth volume is in progress. Price $1.50 per year.

XII. The Journal of Experimental Medicine.

The publication of this journal was begun in 1896. Professor W. H. Welch is the principal editor. It appears six times yearly. Volume V is in progress. Price $5 per year. The set of five volumes will be sold for thirty dollars.

XIII. American Journal of Insanity.

This journal is under the direction of Professor Henry M. Hurd as editor in chief. It appears quarterly. Subscription $5 per year.

XIV. Terrestrial Magnetism and Atmospheric Electricity.

This journal is edited by Dr. L. A. Bauer. It appears quarterly. Volume VI is in progress. Subscription $2.50 per year.

XV. Reports of the Maryland Geological Survey.

These reports are under the editorial direction of Professor W. B. Clark, Director of the Survey.

XVI. Reports of the Maryland Weather Service.

These reports are under the direction of Professor William B. Clark, Director of the Service.

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XVII. Annual Report,

Presented by the President to the Board of Trustees, reviewing the operations of the University during the past academic year.

XVIII. Annual Register,

Giving the list of the officers and students and containing detailed statements as to the regulations and work of the University.

Announcements of the Graduate, Collegiate, and Medical Courses of Instruction are issued yearly and will be sent on application.

Some of the principal separate publications issued by the Johns Hopkins Press are:

PHOTOGRAPHS OF THE NORMAL SOLAR SPECTRUM. By Professor H. A. Rowland. Set of ten plates, $20.

These consist of ten plates, each 3 x 2 feet, containing two strips of the spectrum, and extending from wave-length 3000 to wave-length 6950. Concave gratings having 10,000 to 20,000 lines to the inch, made in the physical laboratory of the University, were used in making these photographs.

A NEW CRITICAL EDITION OF THE HEBREW TEXT OF THE OLD TESTAMENT. Now in progress. Prospectus on application.

A COMPLETE FACSIMILE EDITION OF THE TEACHING OF THE APOSTLES. 110 pages quarto and 10 plates. $5.00.

STUDIES IN LOGIC. 210 pages, 12mo. $2.00.

REPRODUCTION OF A SYRIAC MANUSCRIPT OF THE ANTILEGOMENA EPISTLES. 17 phototype pages. $3.00.

EMBRYOLOGY OF INSECTS AND ARACHNIDS. By Adam T. Bruce. 50 pages, 4to, and 7 plates. $3.00.

DESCRIPTION OF THE JOHNS HOPKINS HOSPITAL. 116 pages, 4to, and 56 plates. $7.50.

SELECTIONS FROM THE EARLY SCOTTISH POETS. By William Hand Browne. $1.25.

A MONOGRAPH ON THE GENUS SALPA. By W. K. Brooks. 400 pages and 57 plates. $7.50.

THE FINANCIAL HISTORY OF BALTIMORE. By J. H. Hollander. 400 pages, 8vo. $2.00.

CUBA AND INTERNATIONAL RELATIONS. By J. M. Callahan. 503 pages, 8vo. $3.00.

THE DIPLOMATIC RELATIONS BETWEEN THE UNITED STATES AND SPANISH-AMERICA. By John H. Latané. (The Albert Shaw Lectures on Diplomatic History). 294 pages, 12mo. $1.50.

THE AMERICAN WORKMAN. By E. Levasseur (translation). 540 pages, 8vo. $3.00.

STUDIES IN TYPHOID FEVER. By William Osler and others. Series I, II, III. 776 pages, 8vo. $5.00.

THE MALARIAL FEVERS OF BALTIMORE. By W. S. Thayer and others. 280 pages, 8vo. $2.75.

STUDIES IN STATE TAXATION WITH PARTICULAR REFERENCE TO THE SOUTHERN STATES. 254 pages, 8vo. $1.25.

HISTORY OF COÖPERATION IN THE UNITED STATES. Edited by R. T. Ely. 540 pages, 8vo. $3.50.

BIBLIOGRAPHIA HOPKINSIENSIS. A list of publications by members of the University. Now in progress.

DISSERTATIONS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY IN THE JOHNS HOPKINS UNIVERSITY.

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15. SCIENTIFIC SOCIETIES.

1. The Scientific Association, meeting under the presidency of Professor Remsen.

2. The Philological Association, meeting under the presidency of Professor Gildersleeve.

3. The Historical and Political Science Association, of which Professor Adams is the director.

4. A Naturalists' Field Club, which makes weekly excursions during the spring and autumn and holds monthly meetings for the presentation and discussion of papers.

There are also companies which meet weekly in the laboratories for the reading of the scientific journals, and seminaries in several departments of study.

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16. HISTORICAL STATEMENT.

THE JOHNS HOPKINS UNIVERSITY was founded by the munificence of a citizen of Baltimore, Johns Hopkins, who bequeathed the most of his large estate for the establishment of a University and a Hospital.

1867, August 24.	Incorporation of the Johns Hopkins University.
1870, June 13.	Organization of the Board of Trustees.
1873, December 24.	Death of the Founder [born May 19, 1795].
1874, February 6.	First Business Meeting of the Trustees.
1874, December 30.	Election of a President of the University.
1876, February 22.	Inauguration of the President.
1876, October 3.	Instruction of Students began.
1886, April 26.	Celebration of the Tenth Anniversary.
1889, May 7.	Opening of the Johns Hopkins Hospital.
1893, October 1.	Opening of the Johns Hopkins Medical School.
1894, October 1.	Opening of McCoy Hall.

CALENDAR, 1901–1902.

The University Examination of Undergraduates begins Friday, May 31, 1901.

Commencement Day falls on the second Tuesday in June: in 1901 on June 11; in 1902 on June 10.

The first Examinations for Admission and Matriculation begin Wednesday, June 12, 1901, at 9 a. m.

The second Examinations begin Wednesday, September 25, 1901, at 9 a. m.

The instruction of classes in all departments (graduate, undergraduate, and medical) begins on the first Tuesday in October: in 1901, on October 1.

Thanksgiving Day falls on Thursday, November 28, 1901.

The Christmas Recess begins Friday evening, December 20, 1901. Exercises will be resumed Monday morning, January 6, 1902.

Commemoration Day falls on Saturday, February 22, 1902.

The Spring Recess begins Thursday morning, March 27, 1902, and closes Wednesday evening, April 2.

MATRICULATION EXAMINATIONS, 1901.

Wednesday, June 12, and September 25.

9–10 a. m.—History.
10–11 a. m.—Science.
11 a. m.–1 p. m.—English.
3–6 p. m.—Latin.

Thursday, June 13, and September 26.

9–11 a. m.—Arithmetic and Algebra.
11 a. m.–12 m.—French and German (*elements*).
3–6 p. m.—Plane and Solid Geometry.

Friday, June 14, and September 27.

9–10.30 a. m.—Trigonometry.
10.30 a. m.–12 m.—Analytic Geometry.
3–6 p. m.—Greek.
3–6 p. m.—French and German (*minor courses*).
3–4 p. m.—French (*elements*).

STATEMENTS IN RESPECT TO THE COURSES OF INSTRUCTION.

The Johns Hopkins University offers instruction to students in the following classes:

1. College graduates and other advanced scholars, who may proceed to the degree of Doctor of Philosophy, in literature or science, or remain for longer or shorter periods in such of the various seminaries and laboratories as they may choose.

2. Undergraduate students looking forward to the degree of Bachelor of Arts and following any one of seven parallel groups of study.

3. Candidates for the degree of Doctor of Medicine, for whom a four years' course is provided.

4. Doctors of Medicine desiring to pursue certain post-graduate courses, which are annually announced.

5. Students who have taken no degree and are not looking forward to a degree, but who desire to avail themselves for a brief period of the opportunities here afforded.

FACULTY OF PHILOSOPHY.

Advanced and graduate students are received with or without reference to their being candidates for a degree, and they are permitted to attend such lectures and exercises as they may individually select. On entering the University they are expected to present their diplomas and certificates from the institutions with which they have been connected, and also letters of introduction. They are not examined for admission by the University, but each instructor satisfies himself of the

attainments of those who wish to follow his guidance, before admitting them to his classes.

The professors are free to give personal counsel and instruction to those who seek it; books and instruments adapted to investigations and advanced work have been liberally provided; the system of fellowships secures the presence of twenty special students imbued with the university spirit, most of them looking forward to academic careers; seminaries limited to a few advanced students have been organized in various subjects; societies devoted to philology, to mathematical, physical, and natural science, and to history and political science, afford opportunities for the presentation of memoirs and original communications, and there are also clubs for the reading and discussion of philological, biological, physical, and chemical papers; during the year courses of lectures are given by resident and non-resident professors on topics to which they have given special attention; the libraries of the Peabody Institute and Maryland Historical Society, founded for the advantage of scholars, are easily accessible; the issuing, under the auspices of the Trustees, of publications devoted to mathematics, chemistry, philology, biology, the modern languages, and history brings the University into advantageous connection with other foundations; and the University reading room, which is constantly open, is liberally supplied with new and with standard books and with the literary and scientific journals of this and other lands.

Instruction is carried on in the different departments by methods which vary with the nature of the subject and the character and proficiency of the scholars; but in all alike the end is the same,—that, while the student is becoming familiar with the work prosecuted and the results attained elsewhere, and is adding to his general intellectual culture, he may be encouraged to become himself an independent and original investigator in his chosen field of labor. Within reasonable limits the University will provide such books, apparatus, and material as may be requisite for this purpose.

The principal subjects in which advanced instruction is now provided are these:

Greek.	Comparative Politics.
Latin.	History of Philosophy.
Sanskrit and Comparative Philology.	Mathematics.
	Physics.
Semitic Languages.	Chemistry.
Anglo-Saxon and English.	Geology, Mineralogy, and Petrography.
German.	
Romance Languages.	Biology, including Zoölogy, Physiology, and Botany.
History.	
Political Economy.	Pathology.

Greek.

The graduate instruction in Greek is directed by Professor Gildersleeve, in connection with the Greek Seminary, which consists of the Director, Fellows, and Scholars, and such advanced students as have satisfied the director of their fitness for an active participation in the work. All graduate students, however, may have the privilege of attending the Seminary exercises.

Each regular member is required to take his turn in the work of the Seminary, and special fields of research are assigned according to progress or bent.

The cycle which has been followed for some years is made up of the Greek Historians, the Attic Orators, Plato, Aristophanes. For example:

1897–98. Plato.	1899–1900. Greek Historiography.
1898–99. Aristophanes.	1900-1901. Attic Orators.

The methods followed have been described in successive annual reports, which may readily be consulted.

The work in the Seminary during the present year was concentrated on the Attic Orators; for the next year the centre of work will be transferred to Plato.

In addition to the work of the Seminary (two meetings a week), courses of lectures are given by the Director, by Associate Professor Miller, and by other qualified persons.

Undergraduate students who select the classical group of studies are required to follow the class-work in Greek, four hours weekly through two years. The texts read vary from year to year, including selections from poets, historians, and orators. Exercises

in Greek composition and in reading at sight are likewise required. To extend the acquaintance of the student with Greek literature, he is obliged to read by himself certain prescribed authors, and to pass an examination upon them. An elective course of two hours a week for a half-year is also provided. The instruction of the undergraduates in Greek is conducted chiefly by Associate Professor Spieker.

The American Journal of Philology, edited by Professor Gildersleeve, has completed its twenty-first volume, and the twenty-second is now in progress.

Latin.

Instruction in Latin is given on a plan similar to that already mentioned as followed in the courses in Greek. The advanced work proceeds through the organization of a Seminary, of which Associate Professor Smith is the Director. The instruction has two distinct ends in view. It aims, first, to give students a wider and more accurate knowledge of the Latin language and literature than can be secured in the ordinary college course, so that they may become more efficient teachers; and, secondly, to train them in the methods of scientific research, so that they may become independent investigators. The most important instrument of training is the Latin Seminary, which meets twice a week. Each year some author or group of authors in a given department of literature is made the centre of work. Critical methods are taught, interpretations are prepared by members of the Seminary in turn, and papers are read by them containing the results of various special investigations suggested by the taste and proficiency of each. The subjects treated during the last four years are as follows:

1897–1898. The Roman Drama, especially Plautus and Terence.
1898–1899. Cicero's Orations and Letters.
1899–1900. The Roman Satire, especially Horace and Juvenal.
1900–1901. The Roman Historians, especially Livy and Tacitus.

Courses of lectures are also regularly given by the Director of the Seminary and from time to time by other qualified persons.

For example, in 1900–1901, Associate Professor Smith lectured on Roman Historiography once a week during the first half-year, and on the Roman Elegy and Epigram throughout the year. He also conducted a Journal Club, which met every two weeks to report and discuss recent philological publications in the field of Latin and Greek. Dr. H. L. Wilson lectured once a week during the first half-year on Latin Epigraphy, and during the second half-year conducted a course in the interpretation of Latin Inscriptions. Dr. Sutphen lectured once a week during the second half-year on Latin Syntax, and, throughout the year, regularly met the advanced students for the rapid reading, with brief comment, of the Latin historians. Mr. Oussani conducted a class in Latin Conversation once a week during the second half-year.

The undergraduate work varies somewhat according to the group of studies elected. The authors read differ year by year, but are so chosen that the student may become acquainted with the different departments of the literature. His work in the classroom must be supplemented by a prescribed course of reading which he follows privately and on which he undergoes examination. Latin composition and sight reading form a part of the course. An elective course of two hours a week for a half-year and a course in Roman literature one hour a week throughout one year are also provided. Dr. H. L. Wilson and Dr. M. C. Sutphen assist in this work.

Sanskrit and Comparative Philology.

Courses of instruction, under the direction of Professor Bloomfield, with the assistance of the Fellow or Scholar in Sanskrit, are provided in the Indo-Iranian languages (Vedic and Classical Sanskrit, Pāli and Prākrit, Avestan or Zend, and old Persian), in comparative grammar of the Indo-European languages, in historical ethnology of the Indo-European peoples, in general linguistic science. During the sessions of 1897–99 courses in the Lithuanian language and literature were given for the first time, and instruction in one or another of the ancient languages of the Balto-Slavic (Lithu-Slavic) family may be hereafter expected as a regular feature of the work of the department.

These instructions aim to meet the wants of those who wish to devote themselves to the study of these branches exclusively and for their own sake, *i. e.*, those who wish to become specialists in Sanskrit philology, or comparative philology; and also the wants of students of languages in general, who wish to obtain a broader linguistic basis for special studies in other departments of philology.

The advanced work aims especially to meet the wants of those who wish to make Indian philology or comparative philology their special study. Instruction is given by practical exercises, lectures, seminary work, and, where possible, the use of native Sanskrit manuscripts. The seminary is furnished with a carefully selected library (including some manuscripts); and approximately complete sets of the Oriental journals, as well as the journals in comparative philology, are freely accessible in the main library.

A prolonged course in Sanskrit, involving two lectures a week during two years and attendance in the Vedic Seminary for a half-year (one hour a week), is planned so as to furnish a good knowledge of classical Sanskrit, and to include an introduction into the dialect of the Vedas. This amount of work represents material sufficient for the first subsidiary subject for the degree of Doctor of Philosophy. A course in the same study for one and a half years, involving two hours a week, is the amount required for a second subsidiary subject leading to the same degree.

A synopsis of the courses offered during recent years may be presented under five heads:

I. Courses in the general principles of comparative philology or linguistic science, and on special chapters thereof; lectures on ethnology.

II. Courses in the general comparative grammar of the Indo-European languages; comparative grammar of Sanskrit and Avestan; comparative study of Greek accent; comparative study of Greek, Latin, Sanskrit, and Teutonic, including vocalism, consonantism, noun-formation, and inflections.

III. The Vedic, Sanskrit, and Pāli-Prākrit dialects; Rig-Veda; Atharva-Veda; literature of the Brāhmaṇas and Upaniṣads. The law books of Manu and Yājñavalkya; the drama Çakuntala and introduction into Prākrit; Hitopadeça, Kathāsaritsāgara, and Nala. Sanskrit grammar and prose composition.

IV. The Avestan language and the literature of the Avesta.

V. The Lithuanian language and literature.

Oriental Seminary.

In the Oriental Seminary, of which Professor Haupt is director, both introductory and advanced instruction is provided in Oriental history and archæology, as well as in the principal Semitic languages, *viz.*, Hebrew (both Biblical and post-Biblical), Biblical Aramaic, Syriac, Arabic (both classical and modern), Ethiopic, Assyrian, etc.; also in Sumerian, Egyptian, etc. In the organization adopted in 1883, a course of three years was arranged. The centre of work is the Old Testament, special attention being given to the critical study of Biblical texts and the cuneiform inscriptions bearing on the Scriptures. Professor Haupt is assisted by Associate Professor Johnston and other competent instructors.

The various courses are adapted to the requirements of four classes of students, namely: (*a*) students of theology wishing to obtain a thorough acquaintance with the sacred tongue and its sister idioms as a means of elucidating Scripture and problems of the comparative history of religion; (*b*) students of linguistics intending to make comparative grammar of the Semitic languages their specialty; (*c*) students of Oriental history and archæology desirous of drawing directly from the original sources; (*d*) persons looking for instruction in the living Oriental languages (as modern Arabic, Turkish, Persian, Amharic, Malay, etc.), for practical purposes.

In these various courses, the Seminary method is followed throughout, the student being from the first brought face to face with the several idioms, without long theoretical introductions. Stress is laid on a thorough grammatical training, imparted in connection with the minute philological analysis of some selected text in the respective languages, or by written exercises in translating from English into Hebrew, Arabic, Syriac, and Ethiopic, or from Hebrew into Assyrian, etc., printed grammars serving only for occasional reference.

A room has been set apart containing a well-equipped working library for all the branches of Oriental research (including the library of the late Professor A. Dillmann, of Berlin, the Strouse Rabbinical Library, a special collection of works on the dialects of the Philippine Islands, etc.), and some advanced students are usually present to help in the preparation for the recitations

conducted by the Director of the Seminary, and to furnish any other aid that may be desired. Near the Dillmann Library, on the same floor, are some archæological and antiquarian collections, including the Cohen Collection of Egyptian Antiquities, the Sonneborn Collection of Jewish Ceremonial Objects, collections of Hebrew and other Oriental manuscripts, Babylonian seal-cylinders and clay tablets, etc.

English.

The instruction in English is given by Dr. James W. Bright, Professor of English Philology, Dr. William Hand Browne, Professor of English Literature, and Dr. Herbert Eveleth Greene, Collegiate Professor of English. Graduate and collegiate courses are provided in conformity with the principles followed in the other language departments. Advanced students are instructed in the technical results of linguistic and literary science, and trained in the processes of original investigation. The college work is arranged upon a plan that prescribes for every student a systematic training in English Composition and in a critical study of standard prose. This is followed by an introductory course in English literature which is required of all students except those pursuing the studies of the Modern Language Group (Group VII); and a more advanced course is provided for those who may wish to continue the subject. The work of students in the Modern Language Group includes, first, a general survey of the history of English Literature from the earliest times to the present day. After this preliminary course, more definite and minute study is bestowed upon prolonged courses that centre in the most significant periods of that history: these are courses in Anglo-Saxon; in the language and literature of the Middle English Period, and especially Chaucer and his contemporaries; in the Early Scottish Poets; in the Elizabethan period; and in the chief writers of the eighteenth and nineteenth centuries.

Graduate Courses.

The advanced courses in English are so arranged as to enable a student, in three or four consecutive years, to study with precision

all the important departments of grammar and of literature. Instruction is imparted by lectures, by freer conferences, by the methods of the Seminary, and by class-room recitation. The Seminary (four hours a week) constitutes the chief organ of instruction and research. It supplies means for the inculcation of what is presented in the lectures, and for organized and prolonged concentration of effort on selected subjects. Usually the work of the Seminary centres each half-year in a different period of the literature, ranging from Anglo-Saxon times to the present century. The literature of the period studied is investigated as to its sources, the history of its forms and traditions, and its artistic value; and linguistically the period is studied in its relation to the history of the language. The members of the Seminary also meet as a Journal Club (fortnightly) chiefly for reviewing the current philological (linguistic and literary) periodicals, and recently published books and monographs. As supplementing the lectures and the Seminary, classes are organized for special training in textual criticism. Weekly conferences and informal lectures furnish an opportunity for the discussion of many topics not provided for in the regular courses of the year. This hour is also in part occupied by lectures given by the students, who may thus acquire experience in the more formal presentation of the results of special study.

College Courses.

1. *Rhetoric and English Composition.* In this course, which is required of all undergraduates, the principles of good writing are inculcated. The use of text-books is supplemented by lectures and discussions, by weekly practice in the writing of short papers, a few of which are read and criticised in the class-room, and by the writing of longer papers, which are read and criticised privately with the writers. During the first half-year the study is directed to the elements of style,—the word, the sentence, and the paragraph. The weekly practice in writing is combined with an examination of the usage of standard writers. During the second half-year the various forms of composition—description, narration, exposition, and argument—are studied and practiced; the work also includes a critical study of standard prose in its various forms.

2. *English Literature.* The course in rhetoric is followed by a prescribed course in English literature; and an additional course, which is elective, is provided for those who may wish to continue the study. These courses are for undergraduate students in Groups I–VI,—those who are not making a special study of the subject, but who wish such acquaintance with it as may be regarded a necessary part of a liberal education. The aim of the instruction in these courses is to give the student an outline history of English Literature, to teach him to read intelligently and with insight, and to lead him to read widely in the works of the more important writers.

The Major and Minor Courses are followed by those undergraduates whose studies are directed more especially to modern languages and their literature (Group VII).

3. In the English Minor a general course in English literature, from the earliest to recent times, is given, the text-book being Arnold's Manual of English Literature. In addition to the questions suggested by the text-book, the instructor supplements the work by oral instruction, the object being to make this course not a mere memorizing of names, works, and dates, but to give the class some living acquaintance with the more important authors, and to enable them to get some grasp of the literature as a continuous whole. The other part of this course consists of a study of the writers of the Early and Middle English periods, Morris and Skeat's *Specimens* being used as a text-book. The changes which both the language and the literature underwent during this transitional and formative period are dwelt upon, showing by what stages and under what influences Modern English was developed.

The Major Course in English—a third year's course—is divided between linguistic and literary studies.

4. *Anglo-Saxon.* An elementary course in Anglo-Saxon prose and verse occupies two hours a week for one year. The text-book used is Bright's *Anglo-Saxon Reader.*

5. In the literary part, one hour a week is given to the Early Scottish Poets from Barbour to Lyndsay, whose work continues the great tradition of English literature during the otherwise somewhat dim period from Chaucer to Surrey. The texts are studied in a reader especially prepared for this class, and the

necessary supplemental information, historical and other, is given by the instructor.

6. One hour a week is also given to the study of some important period of literature or group of writers sufficiently characteristic to be regarded as a whole. For the first half-year the Elizabethan writers have usually been taken, including the reading by the class of one play of Shakespeare. For the second half some other period or group is selected.

It will be seen that the undergraduate work in the major and minor courses comprises: the earliest English, or Anglo-Saxon; the transitional literature from the Anglo-Saxon to Chaucer; the great period of Scottish literature between the times of Chaucer and Elizabeth; the great Elizabethans; and some important later period.

German.

This group of studies is under the direction of Professor Wood, with the assistance of Associate Professor Vos and Dr. William Kurrelmeyer.

Instruction is provided in German of all periods, and in the earlier development of the other members of the Teutonic family of languages.

In the German Seminary, in which the graduate instruction centres, nearly equal attention is devoted to German literature and German philology. To enter upon the work of the Seminary in literature, the student should possess a knowledge of German equivalent to that imparted in the undergraduate courses hereinafter mentioned, supplemented by private readings. For the seminary work in philology, it is desirable, in addition, that preliminary courses in Gothic and Middle High German should be first completed, and these may be taken with advantage by the student immediately upon entering. All graduate students of German are required to share in both the philological and literary work, and to direct their efforts to the attainment of broad results, which may serve as the foundation of scientific work and of successful teaching; but the Seminary and the allied graduate courses are believed to offer also sufficient opportunity and encourage-

ment for the prosecution of chosen lines of work, whether on the linguistic or the literary side, in accordance with individual capacity and bent. In this way, opportunity for independent research is afforded, within the framework of organized effort directed towards the attainment of results which concern the Seminary as a whole, and towards which each member is expected to contribute his share.

The subjects selected for the Seminary during recent years are as follows:

1894–95. Minnesangsfrühling; German Literature in the Eighteenth Century.
1895–96. Goethe and Schiller (1786–1805); Walther von der Vogelweide.
1896–97. Goethe's Faust; Parzival.
1897–98. Goethe's Lyrical Poems; Nibelungenlied.
1898–99. Storm and Stress and Early Romanticism; Walther von der Vogelweide.
1899–1900. Goethe's Faust; The Middle High German Court Epic.
1900–1901. Goethe and Schiller (1786–1805); Parzival.

The Germanic Society, which meets fortnightly, supplements the work of the German Seminary; before it are presented not only reports on articles in current journals, but also successive results of studies by the members. The chief object of the Society is to foster and guide the aptitude for more sustained individual investigation than the Seminary proper offers scope for. Lists of the papers presented and discussed are given in the yearly reports.

In addition to the work of the Seminary (three meetings a week), other advanced courses are given. For example, in 1900–1901, Professor Wood gave courses in Gothic, in the History of German Literature in the XVIII Century, and lectured on the History of Metre in Middle High German. Dr. Vos conducted classes in Middle High German, in Kudrun, and in Modern Dutch. A course on the History of the German Novel in the XVII Century was given by Professor T. S. Baker, of the Tome Institute.

The undergraduate courses in German are conducted chiefly by Associate Professor Vos, aided by Dr. Kurrelmeyer, with such other assistance as may from time to time be required. A course in elementary German is given for candidates for matriculation

who have entered with Greek. This is followed by the regular work in German during the first college year, a course required of all undergraduates. Nearly equal portions of the German drama and of German literary prose are read. Private readings and weekly exercises in prose composition supplement the class readings.

Undergraduates in Group VII who elect German, or undergraduates in any of the seven groups who substitute German at this point in their course, pursue the study during a second year. The readings from the classical period are continued in texts of greater difficulty, and instruction is given in the history of German literature and in the writing of German prose.

An elective course (rapid reading of contemporary literature) is offered to undergraduates who have completed the work in German of the first college year. A second elective in scientific readings is open to undergraduates who are preparing to enter the Medical School.

Classes are also provided in conversational German and in historical and scientific readings, for graduates who lack the ability to read the language at sight.

Romance Languages.

Advanced instruction in Romance Languages is so planned as to cover at least three years, and is directed by Dr. A. Marshall Elliott, Professor of Romance Languages, with the assistance of Dr. Marden, Dr. Armstrong, Dr. Ogden, and others. The subjects of instruction are divided into three distinct sections: a purely linguistic, a purely literary, and a composite group which is intended to unite the first two. Every one who intends to take a degree in Romance Languages must work in these three lines, which are so arranged as to supplement one another according to the attainments and bent of the student, and which are concentrated, for given periods of the course, on the same linguistic domain. The first year is chiefly spent in preparation for seminary work, to which the student is generally admitted, as an active member, at the beginning of the second year. During this preliminary period a practical knowledge of the principal Romance

languages is acquired (a thorough acquaintance with Latin and modern French being pre-supposed); a brief survey is given to the history of the science, together with an introduction to the use of scientific methods in language and literature. With this equipment the student is prepared to begin an appreciative scrutiny of special texts with their critical linguistic and literary apparatus. He is taught to handle his materials with discriminating judgment, and, according to his progress, subjects are assigned to him for investigation which tend to develop the patience and accuracy necessary to a careful investigator. In literature, as in language proper, it is particularly to the origins that his attention is directed, though constant reference is made, by way of comparison, to the modern forms. By extensive reading required in connection with the subjects taken up, he is made familiar with the different phases of opinion held by leading European scholars, and is thus enabled to control certain parts of his subject within well-defined limits. After the first year the student is expected to concentrate upon some single line of work within his general field. It will be observed that the student's work in this course is comparative, and that he moves from the general to the particular. In the early part of it, the object is to give a broad basis to work on, by making him so familiar with the principal Romance idioms that he may use them readily, by way of illustration, in his subsequent studies. Dialect study and phonology are made essential features of this plan of studies.

The subjects to which attention has been given in the Seminary in past years are as follows:

1883–84. Anglo-Norman Dialect and the Oaths of Strasburg.
1884–85. Cantilène de Sainte Eulalie and Fragment de Valenciennes.
1885–86. The Franco-Norman Dialect, with the Vie de Saint Alexis.
1886–87. The Oaths of Strasburg and the Cantilène de Sainte Eulalie.
1887–88. Old French Paraphrase of the Canticum Canticorum and the Fragment de Valenciennes.
1888–89. The Oaths of Strasburg and the Cantilène de Sainte Eulalie.
1889–90. *Reimpredigt:* Grant mal fist Adam.
1890–91. L'Epopée royale: Pèlerinage de Charlemagne.
1891–1900. Marie de France: Fables.

In addition to the work of the Seminary, lectures are regularly given at stated periods of the course: (1) on French phonetics,

physiological and historical, (2) on Old-French syntax, (3) on Romance morphology, (4) on French dialects, (5) on Italian dialects, (6) on Old-French palæography, (7) on the history of French Philology, (8) on the linguistic ethnography of France and Italy, (9) on the sources of Romance Philology, (10) on Popular Latin, (11) on Italian philology and literature, (12) on Spanish philology and literature, (13) on Old-French literature, (14) on Modern-French literature, (15) on Romance versification, (16) on methodology of the Romance languages.

The special lectures on French literature are arranged to run through the whole period of three years, and form an important part in the training of the student.

A special publication, Modern Language Notes (A. Marshall Elliott, editor in chief), now in its fifteenth volume, is issued monthly by members of the modern language departments, in which are presented the most recent literary and scientific aspects of linguistic research in the modern idioms.

The undergraduate classes in French are conducted by the Associates of the department, under the direction of the head of the department. Students in Group VII who elect French, follow class work for four hours weekly through two years, during which time they read extensive selections from Modern and Middle-French texts, and are made acquainted with the general laws of French phonology and morphology. All undergraduates must complete the work of the first of these two years. Private reading is required, varying from year to year according to the authors taken up in class. Courses in Italian and Spanish, similar in arrangement and requirements to those in French, are also provided for undergraduates.

History, Politics, and Economics.

J. M. Vincent, Associate Professor of History; Sidney Sherwood, Associate Professor of Economics; W. W. Willoughby, Associate Professor of Politics; J. H. Hollander, Associate Professor of Finance [absent 1900–1901]; James Schouler, Lecturer on American History; B. C. Steiner, Associate in History; J. C. Ballagh, Associate in History; G. C. Lee, Instructor in History; G. E. Barnett, Instructor in Economics.

Graduate Courses.

Advanced instruction in history, economics, politics, social science, statistics, historical and comparative jurisprudence, historical criticism, methods of research and historiography, is offered to graduates, or to special students of mature years, if qualified by ability and previous studies to pursue such courses. Graduate instruction is given chiefly by lectures, accompanied by private readings by the students, and by frequent reports and examinations, both oral and written, upon special subjects.

The department aims to develop the spirit of original research among the more advanced students. This end is attained by individual advice and by the constant association and coöperation of students and instructors, not only in classes and lectures, but in organized societies called Seminaries, or Conferences, of History, Politics, and Economics, meeting in the department library for the report and discussion of original studies. Students are encouraged to conduct scientific researches in European history, in American institutional and economic history, in comparative politics and economics, as well as social science and education. The best results of original inquiry by the department are published in the "Johns Hopkins University Studies in Historical and Political Science." Avenues of publication have also been found hitherto in the leading historical and economic journals.

The following general statements will suffice to characterize the various courses of instruction. Details may be found in the annual announcements.

HISTORY.

Associate Professor John Martin Vincent lectures to graduate students on the history of Europe and on the science of historical investigation. The courses direct attention to the social, economic and constitutional development of European peoples since the fall of the Roman Empire. The subjects follow in consecutive order, the topics for each year forming a complete and independent group. The whole series of courses requires three years for completion and offers opportunity for close study of Mediæval and Early Modern History. The lectures on historical research discuss in detail the various materials of history and the methods

by which these are tested and used. Dr. Vincent also conducts a weekly Historical Conference for the study of selected historical problems. The work of the students is subjected to criticism in order to promote facility in research and develop historical judgment. The Historical and Political Science Association or Historical Seminary meets fortnightly under the direction of Dr. Vincent, with the aid of all the instructors and fellows. The more important original work of the department is here read and criticised, and the current literature of history, economics, and political science is subjected to review.

Dr. James Schouler, author of the History of the United States under the Constitution, gives in successive years short courses of lectures on American political and economic history.

Dr. Ballagh conducts graduate lectures and conferences on American economic history and holds oral examinations in general history for advanced students.

Dr. Lee conducts courses in the history of English law for graduates and advanced students of law.

Attention should also be called to the lectures in Oriental History offered by Professor Bloomfield, of the department of Sanskrit and Comparative Philology, and by Associate Professor Johnston, of the Oriental Seminary.

Dr. Albert Shaw, editor of the *American Monthly Review of Reviews*, and a graduate of this department of the Johns Hopkins University, has provided for a series of lectures on the diplomatic history of the United States. One of these courses will be given in 1901–2. Further particulars will be given in the annual announcement.

Other lectures of interest to students of this department, either open to the public or designed for class instruction, may be expected from time to time from distinguished scholars outside of this University.

POLITICAL SCIENCE.

Associate Professor Willoughby conducts a fortnightly conference for advanced students, and gives six courses of lectures (two courses, two hours weekly, throughout each year) upon the following subjects: (1) Comparative Public Law; (2) Advanced United States Constitutional Law; (3) the Legal Aspects of

Economic and Industrial Problems; (4) the History of Political Theories, Ancient and Mediæval; (5) the History of Political Theories, Modern; (6) Historical Jurisprudence.

These courses, though complete in themselves, are so arranged that the first three give a comprehensive treatment of Constitutional Law, while the last three together cover the entire history of the development of political ideas.

ECONOMICS AND SOCIAL SCIENCE.

Economics.—Systematic instruction is offered both in the general theory and in the most important special fields of economic science. Effort is directed to promote the mastery of sound methods of research. Considerable attention is given to the history of the science itself as one of the best means of studying the development of economic life and institutions.

Dr. Sherwood conducts the following graduate courses: (1) Economic Seminary, meeting one hour weekly; (2) nine courses of lectures, planned to extend over a period of three years, the subjects being (*a*) money, (*b*) corporations and trusts, (*c*) law and economics, (*d*) transportation, (*e*) commerce, (*f*) principles of economics, (*g*) banking, (*h*) theory of credit, (*i*) economic development.

Dr. Hollander lectures upon (1) science of finance, (2) history of economic theories, (3) financial and industrial history of the United States. During a period of three years his courses include (*a*) the economic system of David Ricardo, (*b*) the development of commonwealth taxation in the United States, (*c*) the development of economic theories since Adam Smith, (*d*) history and theory of industrial crises, (*e*) economic theories before Adam Smith, (*f*) municipal finances. [Absent 1900–1901.]

Social Science.—Dr. Jeffrey R. Brackett, Chairman of the Board of Charities and Correction of Baltimore, gives a course of lectures and conferences on Public Aid, Charity and Correction. The work affords a practical as well as a theoretical introduction to these important public questions.

Undergraduate Courses.

The undergraduate instruction in this department aims to impart such a knowledge of the essential facts and principles of general history and politics as will contribute towards a liberal

education and fit men to pursue advanced courses in special branches of these sciences, with a view to taking the doctor's degree or to entering the work of education, law, journalism, charity organization, or the civil service. This training process is pursued in class courses, where systematic and positive instruction is given by means of required text-books, lectures, essays, oral reports, and constant drill. The undergraduate work extends, in its various sections, over a period of three years (see College Courses, Sixth Group, beyond). A course in European History, taken in connection with the outlines of Economics, is also required of every undergraduate student not in the Historical Group. Graduates of other institutions who have not had the equivalent of these preliminary courses in History, Economics, and Politics, or who do not possess a knowledge of French and German, are expected to make up their deficiencies by extra work in undergraduate classes.

(*a*) *History.*—Dr. Steiner conducts a class course in American Constitutional and Political History.

Dr. Ballagh conducts courses in (1) the history of Greece and Rome and European history to 800 A. D.; (2) Oriental Civilization, ancient and modern, including Egypt, India, China, and Japan.

Dr. Lee conducts a course in English Political and Constitutional History. He also gives instruction in (1) Parliamentary Practice and Debate; (2) the Elements of Public Speaking; (3) Public Lecturing (open to graduates).

Historical Politics. This course follows the development of political history and institutions from the classical period to modern times. It is conducted by one of the historical instructors as a part of the course in History-Economics.

(*b*) *Economics.* — Undergraduate instruction, conducted by Doctors Sherwood, Hollander, and Barnett, is given as follows: (1) course in general economics (Minor Economics), four hours weekly throughout the year, required of students in Group VI; (2) course in general economics, two hours weekly throughout the year; taken in connection with a two-hour course in Historical Politics, this forms the History-Economics course required of all undergraduates not in Group VI; (3) advanced economics, two hours weekly throughout the year, open as an elective course to students who have taken either (1) or (2).

Philosophy.

A course in the History of Philosophy, for graduate students, is given by Professor Griffin, in which Bacon's Novum Organum (Book I), Descartes' Method, Meditations, and Principles of Philosophy, Spinoza's Ethics, Leibnitz's Monadology, Locke's Essay on Human Understanding (Books I, II, IV), Berkeley's Principles of Human Knowledge, Hume's Treatise on Human Nature (Book I), Kant's Critique of Pure Reason, and Critique of Practical Reason (in Watson's "Selections") are read and discussed.

The instruction in Philosophy offered at present is, however, mainly undergraduate, consisting of required courses in Logic, Psychology, and Ethics, which occupy five hours per week throughout the year.

(*a*) *Logic.* The logical forms—terms, propositions, syllogisms—are studied as an analysis or explanation of the thinking process, and as a practical discipline in exact thought; attention is given also to the material elements in inference, as these are stated in the several inductive methods.

The work is conducted by means of recitations—Creighton's Introductory Logic being used as a text-book,—informal lectures, and written exercises in the definition and division of terms, in the opposition and conversion of propositions, in the application of syllogistic rules, in the criticism of arguments, etc.

(*b*) *Psychology.* The instruction in Psychology is intended to give a general view of the results of present methods of study, the investigations in regard to the quality and intensity of sensations, the duration of psychic acts, etc.—in general, the subjects treated in the second part of Ladd's Physiological Psychology—being presented with sufficient detail to render them intelligible and interesting. A series of lectures and demonstrations on the anatomy and physiology of the nervous system—given this year by Dr. C. R. Bardeen—is included in the course.

Especial emphasis is laid upon the facts of conscious experience as known through introspection, the most important end to be secured being, as it is believed, such an understanding of the facts and laws of mental life as shall fit one for wise self-government and effective influence. With this view, such powers and states

of mind as attention, memory, association, habit, imagination, the feelings, the will, are discussed in as concrete and practical a way as possible. Baldwin's Elements of Psychology and Ladd's Outlines of Physiological Psychology are used as the basis of instruction, but these are largely supplemented by lectures, and by references to various authorities. An essay on an assigned subject is required from each member of the class.

(*c*) *Ethics.* Ethics is treated with reference to its fundamental problems as a theoretical science, and also from a practical point of view. Its psychological basis in the various forms of feeling native to our constitution, and in the power of rational self-determination; the nature of the sense of obligation; the authority of conscience; the diversities of moral opinion; the historic theories of morals—hedonism, utilitarianism, intuitionism, and the application to ethical theory of the doctrine of evolution—these are some of the topics discussed.

Mackenzie's Manual of Ethics has been employed this year as a text-book, but the instruction is necessarily given, to a considerable extent, through lectures. One essay is required from each member of the class.

(*d*) *History of Philosophy.* An outline of the history of philosophy is given in a series of lectures, some of which are included in the prescribed instruction, and some of which are for the benefit of any who may be disposed to attend them.

Mathematics.

The instruction in Mathematics is at present entrusted to Professor Morley, Dr. Hulburt, Collegiate Professor of Mathematics, and Dr. Cohen, Associate in Mathematics.

The less advanced subjects are nearly the same every year. The more advanced courses vary from year to year, and are so arranged that a student who remains here two or three years may receive continued and systematic guidance in the main lines of modern mathematical research.

The subjects of the advanced courses may be broadly classified as follows:

Theory of Numbers, Theory of Finite Groups, Theory of Transformation Groups, Theory of Invariants.

Higher Plane Curves, Line Geometry, Geometry of Circles and Spheres, General Projective Geometry, Differential Geometry.

Theory of Functions of Real Variables, Theory of Functions of a Complex Variable, Theory of Functions of Two Complex Variables; Elliptic Functions, Elliptic Modular Functions, General Automorphic Functions, Abelian Functions; Ordinary Differential Equations, Partial Differential Equations; Calculus of Variations.

Kinematics, Theoretical Dynamics, Theory of the Potential, Theory of Probabilities.

The Mathematical Seminary meets weekly.

Undergraduates are annually instructed in Elementary Analytic Geometry, Theory of Equations, Elements of Projective Geometry, Differential and Integral Calculus, Differential Equations, Solid Analytic Geometry.

A large number of mathematical journals are regularly received, besides the publications of learned societies abroad and at home. Among the journals received are the following (the asterisk indicating full sets):

Journal für die reine und angewandte Mathematik* (Crelle); Journal de Mathématiques pures et appliquées* (Liouville); Comptes Rendus; Mathematische Annalen*; Monatshefte für Mathematik und Physik*; L'Intermédiaire des Mathématiciens*; Bulletin des Sciences mathématiques*; Journal de l'École Polytechnique; Annales de l'École Normale; American Journal of Mathematics*; Annali di Matematica*; Giornale di Matematica*; Acta Mathematica*; Archiv für Mathematik und Physik* (Grunert); Zeitschrift für Mathematik und Physik*; Proceedings of the London Mathematical Society*; Bulletin of the American Mathematical Society*; Transactions of the American Mathematical Society*; Bulletin de la Société mathématique de France*; Rendiconti del Circolo Matematico di Palermo*; Quarterly Journal of Mathematics*; Messenger of Mathematics; Annals of Mathematics.*

The University has a collection of about two hundred and thirty geometrical models, illustrating the forms of mathematical solids, surfaces, and curves, their singularities and varieties, and the methods of descriptive geometry by which they are represented on a plane.

The American Journal of Mathematics, founded by Professor Sylvester, and edited successively by Professor Craig, Professor

Newcomb, and Professor Morley, has completed its twenty-second volume. Beginning with Volume X, there has been published in each volume the portrait of an eminent mathematician. Those so far published, in the order of publication, are as follows: Sylvester, Hermite, Poincaré, Cayley, Klein, Halphen, Lie, Picard, Appell, Fuchs, Darboux, Newcomb, Mittag-Leffler, Salmon.

The Sylvester Prize, consisting of a bronze medallion likeness of the great mathematician, was inaugurated on Commemoration Day by the presentation of copies to Lord Kelvin and Professor Newcomb.

Physics.

The instruction in Physics is under the charge of Professor Rowland, Director of the laboratory, with the aid of Professor Ames, Sub-Director of the laboratory, Dr. W. J. A. Bliss, Dr. N. E. Dorsey, Mr. J. B. Whitehead, and several assistants.

The laboratory is a substantial brick building 117 feet long by 71 feet wide, with five stories besides a basement and a sub-basement, and is so situated as to receive light from all sides. Power and heat are furnished from separate buildings.

The physical apparatus includes an equipment for lectures and demonstrations and a valuable collection of instruments for elementary work and research. Many of these have been made from special designs, others are standard instruments which have been purchased from European and American makers; all of them have been most carefully selected. Special facilities, in some cases almost unique, are afforded those wishing to carry on investigations in electricity and in light.

The physical and mathematical libraries of the University are now placed in McCoy Hall, where they are easily accessible at any time. The physical section contains complete sets of almost all the physical journals published in this country and abroad, and all the standard books of the present and the past. About sixty periodicals, English, French, German, and Italian, are received. Certain magazines and books of reference are retained in the Seminary Room of the laboratory, where the advanced

students can consult them at any moment. This small collection is specially selected each year with reference to the courses of advanced instruction offered that year. Among the magazines kept on file in the laboratory are the following:

Philosophical Magazine, Physical Review, The Astrophysical Journal, Annalen der Physik and Beiblätter, Zeitschrift für Physikalische Chemie, Journal de Physique, Comptes Rendus, Proceedings and Transactions of the Royal Society of London, the Proceedings of the London Physical Society, L'Éclairage Electrique, and the Electrician (London.)

Instruction and facilities for work in the laboratory are offered all classes of students, elementary and advanced. The following is a general view of the courses:

First Year (Minor) Course.—This is intended for students who are beginning Physics, or who have not a sufficient knowledge of the principles of the subject to warrant their undertaking more advanced work. To enter this course a student must be able to use logarithms and must have studied plane trigonometry, at least as far as through the solution of right-angled triangles. The lectures are accompanied by demonstrations; and mechanics, sound, heat, electricity and magnetism, and light are taken up in succession. Recitations on the subjects treated in the lectures are held regularly, and the course continues, four hours weekly, through the year. Along with the lectures the student does regular work in the laboratory, three hours a week, performing simple quantitative experiments, which illustrate the facts and principles considered in the class-room. Written records of lectures and reports of laboratory exercises are required.

Second Year (Major) Course.—This is designed to meet the needs of students who have already taken either the first year's course, or its equivalent, and who wish to pursue further their physical studies. A working knowledge of analytic geometry and calculus is required for admission to this course. The lectures take up both the descriptive and the mathematical side of the subject. Recitations are held regularly, and the course continues, four hours weekly, through the year. The laboratory work of this year occupies five hours a week, and includes problems that

present greater difficulties, experimental or theoretical, than those of the first year. The student is allowed the choice of work in mechanics and electricity, or in heat and light. Written records and reports are also required in this course.

Advanced Work.—For the instruction of those students who have the necessary preparation, certain lectures are given in Mathematical Physics. There is one course, continuing through two years, which includes Heat Conduction, Physical Optics, Electricity and Magnetism. There is also a more elementary course, which continues for three years and embraces more or less completely the subjects ordinarily included in Mathematical Physics, such as Theoretical Mechanics, Hydrodynamics, Elasticity, Sound, Theory of Attractions, Thermodynamics, Electric Oscillations, Physical Optics, etc.

These lectures develop the mathematical theory of the subjects; and to follow them the student should have a satisfactory knowledge of differential equations and analytic geometry of three dimensions. Authors like Lord Kelvin, Lord Rayleigh, Maxwell, von Helmholtz, Poincaré are referred to continually, and the ability to read French and German is absolutely necessary.

There is also a course of instruction, both theoretical and practical, in applied Electricity. This course is intended for graduate students only.

The advanced students meet with the instructors once a week for the discussion of the current physical journals. Carefully prepared reports on various articles are here presented.

The Physical Seminary, to which only the most advanced students are admitted, meets once each week. The work of the seminary consists of two distinct exercises. One is the reading of some physical treatise and a consideration of the problems suggested by it; the other is the presentation of critical papers upon various assigned topics which are of special or historical importance.

An effort is made to render the laboratory as useful as possible to advanced students and investigators. Those who are prepared for such work, will have the facilities which it affords placed most freely at their disposal, and will receive all possible assistance.

Chemistry.

The instruction in Chemistry is under the charge of Professor Remsen, Director of the laboratory, with the coöperation of Professor Morse, Sub-Director, Professor Renouf, First Assistant, Dr. Gilpin, Second Assistant, Dr. Jones, Associate Professor of Physical Chemistry, and other aids.

The higher or graduate work is based upon that given in the two years' undergraduate course, and those graduates of other colleges who have not followed courses equivalent to this, begin with that part of the undergraduate work which appears best suited to their needs. The following outline of the work will give some idea of its character:

Undergraduate work: First year.—From five to six hours each week through the year are given to laboratory practice. Three lectures are given each week by Professor Renouf, and one review on the subjects treated in the lectures and on the laboratory work is conducted by Professor Renouf and Dr. Gilpin. The ground covered by this course is approximately that laid down in "An Introduction to the Study of Chemistry" by Ira Remsen (Holt, New York), which is the text-book used.

Undergraduate work: Second year.—In this year the same amount of time is given to the laboratory as in the first year. The object in view is to give a more complete knowledge of the phenomena of chemistry than is given in the first year. The making of preparations of both inorganic and organic compounds plays an important part in the work. Further, the study of analytic reactions and of analysis is taken up as far as the time permits. Besides the laboratory practice, the course includes class-room work as follows: From October 1 until the Christmas recess four exercises a week in general inorganic chemistry, based largely upon the laboratory work, and conducted by Professor Morse. As a book of reference to be used in connection with the laboratory work of this part of the course, and also for general study, Remsen's "Inorganic Chemistry: Advanced Course" (Holt, New York) is recommended. From January 1 until the end of the year the study of the chemistry of the compounds of carbon is taken up, the class-room work, which is based upon

Remsen's "Introduction to the Study of the Compounds of Carbon" (Heath, Boston), occupying four hours a week, under the guidance of Professor Morse.

Graduate work.—The greater part of the work in the advanced courses is carried on in the laboratory. The subject of qualitative analysis is taken up thoroughly after a careful study of reactions as laid down in the "Introduction to Chemical Analysis" by Volhard and Zimmermann, while at the same time the study of general chemistry is continued. A prolonged course in quantitative analysis follows. The analytical work, which is under the supervision of Professor Morse, requires about a year. After this, an opportunity is given for the preparation of a variety of compounds involving methods of general importance, or illustrating important classes. A course in the methods of Physical Chemistry, such as the determination of molecular weights by observations on the boiling-points and freezing-points of solutions, measurements of electrical conductivity, etc., is conducted by Associate Professor Jones. The course in the preparation of organic compounds is that laid down in Remsen's "Introduction to the study of the Compounds of Carbon," supplemented by selections from Levy's "Anleitung zur Darstellung organischer Präparate," Fischer's book of the same title, and Gattermann's "Die Praxis des organischen Chemikers." This work is under the personal supervision of Professor Remsen. During the last year of his course the student undertakes an investigation, under the guidance of one of the teaching staff, and, in case he is a candidate for the degree of Doctor of Philosophy, his dissertation is based upon the results obtained in the investigation.

Special lectures are offered to advanced students, the topics varying from year to year. During the current year Professor Remsen gave four lectures a week to graduate students on the Chemistry of the Compounds of Carbon. Dr. Jones gave an elementary course of lectures on Physical Chemistry twice a week during the first half-year, and a more advanced course three times a week throughout the year. There was also a course of lectures in the field of historical chemistry, in which some of the advanced students took part, each one working up an assigned topic, and presenting the results in the form of a lecture or lectures. Meet-

ings were held weekly during the year to hear reports upon the more important articles in journals of chemistry. Next year, 1901–1902, Professor Remsen will lecture four times weekly, through the entire year, on the Chemistry of the Compounds of Carbon (first half) for graduate students. Lectures on Physical Chemistry will also be given as this year. The historical course and the journal meetings will be continued.

While, in the courses outlined above, the books mentioned are used as the guides, the instruction is in no case confined to what is presented in the book. Students are constantly referred to the journals and other publications containing articles bearing upon their work. Further, *the chief instruction in every course is that given in the laboratory.*

As regards the time required by a graduate student to complete the work for the degree of Doctor of Philosophy, it can only be said that one who has the necessary qualifications can generally do it in three years, after following such a course as that given to the undergraduates of this university who take the two years' course in chemistry. Those who have not had this preparation will generally require a longer time. There are no stereotyped courses leading to the higher degree, and it is impossible to say exactly what must be accomplished to attain it. What is desired is a certain maturity of mind with reference to the science of chemistry, and an ability to deal with chemical problems intelligently. This condition of mind is reached, if reached at all, by long-continued laboratory training accompanied by careful study of chemical journals and treatises. It may be said finally that the arrangements of the laboratory are made mainly with reference to those who wish to take up the study of chemistry in a broad way, and that those who want short courses in special branches of chemistry are not advised to come here. It is believed that whatever object the student may have in view, whether he intends to teach or to follow some branch of applied chemistry, the best preparation he can have is a thorough training in the pure science.

The American Chemical Journal, edited by Professor Remsen, is now in its twenty-fifth volume.

Geology.

The instruction in Geology is under the direction of Professor W. B. Clark, assisted by Dr. H. F. Reid, Associate Professor of Geological Physics, Dr. E. B. Mathews, Associate Professor of Mineralogy and Petrography, Dr. G. B. Shattuck, Associate in Physiographic Geology, and Dr. O. L. Fassig, Instructor in Climatology.

An important course of lectures is given annually by Mr. Bailey Willis, of the U. S. Geological Survey, Lecturer on Stratigraphic and Structural Geology. Shorter courses are given by Professor Cleveland Abbe, of the U. S. Weather Bureau, Lecturer on Meteorology, and by Dr. L. A. Bauer, of the U. S. Coast and Geodetic Survey, Lecturer on Terrestrial Magnetism.

The George Huntington Williams Memorial Lectureship on the Principles of Geology was inaugurated in April, 1897, by Sir Archibald Geikie, Director-General of the Geological Survey of Great Britain and Ireland. A second course of lectures by Professor W. C. Brögger, of the University of Christiania, was given in April, 1900. It is anticipated that the third course will be given in 1903.

The courses in geology, which are offered to both graduate and undergraduate students, consist of lectures, laboratory and field work, and conferences upon topics of current literature. Great importance is attached to laboratory training as a part of the geological course, and facilities are given for daily work from 9 a. m. to 5 p. m.

Commodious rooms have been fitted up in Hopkins Hall for the uses of the geological department, and contain the books, apparatus, and collections pertaining to geology.

Lecture Courses.—I. General Geology.—This course is planned to serve as an introduction to all work in geology, for both undergraduate and graduate students, irrespective of the particular department in which they may choose their principal subject.

The lectures embrace a general survey of the whole field of geology, and are illustrated by rocks and fossils, by maps and sections, and by lantern views. Excursions are made on Saturdays, during the autumn and spring months, into the surrounding

country. During the winter months an afternoon weekly is devoted, in the laboratory, to the exposition of specimens of rocks, fossils and minerals.

II. Paleontology.—Attention is devoted to both the biological and geological relations of the important types of the animal and plant kingdoms. The phylogenetic history of the leading groups is also traced out in considerable detail wherever possible.

III. Historical Geology.—In this course the classification and distribution of the sedimentary rocks are fully considered. The value of fossils in the determination of horizons is explained, and a detailed study made of the geological literature of the different countries of the globe. An extensive series of maps is in constant use to illustrate the course.

Courses II and III are given in alternate years, if thought desirable.

IV. Experimental Geology.—Geological phenomena, which depend directly upon physical principles, such as volcanoes, earthquakes, geysers, flow of rivers, production of folds, faults, etc., are treated theoretically, and, so far as possible, experimentally.

Laboratory work accompanies the course, the student being given an opportunity to make experiments of his own.

V. Geological Physics.—In this course the size and shape of the earth, the temperature, rigidity, age, magnetic conditions, etc., are discussed.

VI. Exploratory Surveying.—The simple methods of determining geographical position; the methods of rapid route surveying; the use of the plane-table, the camera, etc., are considered with especial reference to travellers and explorers. The principles of map projection are explained. Practical instruction in the use of the instruments is given.

VII. General Mineralogy.—This course is divided into three parts. The lectures treat of the crystallography, the general physical properties, and the description of mineral species. The laboratory course includes work with crystal models, goniometers, and blow-pipes. Emphasis is laid on the mode of formation and geological occurrence of minerals. The course closes with a discussion of the leading types of rocks.

VIII. Advanced Mineralogy.—The lectures include a full discussion of optical and microscopical mineralogy. Especial

attention is given to the behaviour of minerals as constituents of rock masses.

IX. Petrography.—This course includes a discussion of methods and a description of the structures and physical properties of rocks. The second portion of the course is devoted to the special petrography of the igneous rocks, including a study of their various classifications and a discussion of their origin, distribution, and literature. The consideration of the more common sedimentary and metamorphic rocks concludes the course.

Courses VIII and IX are given in alternate years, if thought desirable.

X. Climatology.—In this course of lectures the topics chiefly considered are: Heat and its distribution over the earth's surface; rainfall and evaporation—their distribution and effects; winds and storms; weather sequences as illustrated by the daily weather charts of the U. S. Weather Bureau; extent to which topography influences the distribution of the climatic elements; variability of climates; organization and methods in statistical meteorology.

XI. Physiographic Geology.—This course deals primarily with the description of topographic forms, and includes a discussion of their origin and classification. The lectures are illustrated with maps, models, and lantern views.

XII. Geological Drawing.—An opportunity is afforded in this course to learn the methods of map and section drawing and coloring, together with such other lines of geological illustration as the student may desire. The sketching of geological sections in the field is included in the course.

XIII. Stratigraphic and Structural Geology.—This course consists of a description of the processes which result in the formation and upheaval of sedimentary rocks. Erosion is discussed with special reference to conditions governing the character of detrital materials. Sedimentation is considered as a complex process of sorting, distribution, and deposition of the waste of land areas, and deformation is treated as the process which initiates erosion, and also, as applied to folding, as the indirect result of excessive deposition. The mechanics of rock folding and thrusting are illustrated both by actual sections of the Appalachians and by experimental results. The whole course centres on a discussion of the principles which should govern the interpretation of the sedimentary record.

XIV. Meteorology.—A few lectures are given by Professor Abbe, at irregular intervals, on the principles of meteorology.

XV. Terrestrial Magnetism—Dr. Bauer gives a few lectures on the principles of terrestrial magnetism and the relations to geology and climate.

XVI. Principles of Geology.—(The George Huntington Williams Memorial Lectureship.) This course is given every third year.

Laboratory Work.—Laboratory courses are arranged to accompany the lectures, while advanced or special students are given the opportunity to carry on fuller investigations upon either described or new materials.

The introductory laboratory work consists of a study of materials designed to illustrate Lecture Course I, and includes typical fossils and minerals, together with maps, models, and sections of fully described areas.

Specially selected materials are also employed to illustrate the more advanced courses. Extensive collections for both the organic and inorganic work are owned by the University, and include both determined and undetermined specimens.

Experiments are made in connection with the work in Experimental Geology.

For those who plan to carry on original investigations large series of undescribed materials are accessible, while the immediate region affords exceptional opportunities for further collecting. Several such special pieces of work relating to the local area have already been published, while others are at the present time under consideration in the laboratory.

Conferences and Student Lectures.—In order that the advanced students may be kept in touch with the most recent investigations in the science, conferences are held at which the leading journals in geology are reviewed by the students under the direction of the instructors. The conferences take place bi-weekly.

In order that the advanced students may also have the experience necessary for the successful preparation and delivery of class-room lectures, a course upon some phase of geology is arranged, a special topic being assigned to each student. The lectures take place bi-weekly, alternating with the conferences.

Field Work.—The area of the State of Maryland includes, notwithstanding its comparatively small size, a remarkable sequence of geological formations. The ancient rocks of the earth's crust, as well as those still in the process of deposition, are found, while between these wide limits there is hardly a geological epoch which is not represented. As a result, most excellent facilities are afforded for a study of the various geological horizons.

During the autumn and spring, excursions are made upon Saturdays into the surrounding country, the crystalline areas and the various Cretaceous and Tertiary formations being readily accessible. More extensive excursions are made from time to time into the early Mesozoic and Paleozoic areas of the western portion of the State, and into the highly fossiliferous Tertiary region of the lower Chesapeake Bay.

After the student has become familiar with the various regions under the guidance of the instructors, he is encouraged to take up the study of some specified area, where, according to his inclinations, he may carry on investigations upon the older crystalline rocks or the later fossiliferous strata. Several theses of this nature have already been presented for the degree of Doctor of Philosophy.

Geological Laboratory and Library.—The Geological Laboratory is situated in Hopkins Hall, and comprises over thirty rooms, large and small. Here are placed the library, apparatus, and collections, which are accessible to the student daily from 9 a. m. to 5 p. m.

In accordance with the custom of the University, those books relating to the work of the geological department are given into its charge, the books of general reference being retained in the University Library.

The main room upon the third floor, called the Williams room, contains the collections of the late Professor George Huntington Williams, and a smaller room near by his books and pamphlets. A room upon the second floor contains the valuable meteorological library recently presented to the University by Professor Cleveland Abbe, of the U. S. Weather Bureau. Another room upon the same floor contains the books and collections of the late Professor H. Carvill Lewis and is known as the Carvill Lewis room.

Still another room adjoining these contains an important collection of books on economic geology recently presented by William Keyser, Esq., and known as the Keyser Library. Other important gifts in this department have been made by Jesse Tyson, Esq., and by the widow of the late Wm. N. Symington, Esq., the mining engineer.

The general library of the department contains a good representation of the leading journals and works of reference upon geological subjects. It is greatly enriched by the Williams, Lewis, Abbe, and Keyser libraries mentioned above. Extensive series of topographical and geological maps likewise form a portion of the library, and these are constantly increasing in number.

The library of the Maryland Geological Survey, connected with the geological department, already embraces an important collection of journals and proceedings of learned societies and is rapidly increasing as the result of extensive exchange.

In addition to libraries belonging to the University, the Peabody Library, rich in geological works, is available for the use of students, while books not obtainable in Baltimore may be readily consulted in the libraries of Washington.

Collections and Apparatus.—The collections of the department consist primarily of a large amount of important material brought together from Maryland and adjacent States. It represents all the horizons of the State, being especially rich in crystalline rocks and in Cretaceous and Tertiary fossils. Some of this material has already been described, while much awaits further study.

Among the most important of the special collections are the Williams, Lewis, Krantz, Hill, Stürtz, Lehmann, and Allen collections.

The apparatus includes series of models of the continents, of the State of Maryland, and of the area surrounding Baltimore, as well as of special regions of geologic and topographic interest. The department is also provided with numerous photographs and lantern slides, several goniometers, a dissolving stereopticon, over a dozen microscopes of late design, an electrical machine for preparing rock-sections, a complete suite of wooden and glass crystals, together with other important pieces of apparatus for special work. The machine shop of the Maryland Geological Survey is also

equipped with the latest apparatus for testing the wearing and cementing qualities of road materials. This work is carried on under the direction of Dr. Reid.

State Scientific Bureaus connected with the Geological Department.—Two scientific bureaus, established by the Legislature and maintained at the expense of the State, are carried on in connection with the geological department. They are the Maryland Geological and Economic Survey and the Maryland State Weather Service. Professor Clark is in charge of both of these organizations, which are concerned with a study of the geology and physical features of the State of Maryland.

Maryland Geological Survey.—The Maryland Geological and Economic Survey was established by an act of the Legislature in March, 1896. It receives at the present time for its different departments of work the sum of $25,000 annually from the State.

Professor Clark was elected, by the commission, State Geologist and Superintendent of the Survey, with instructions to carry out the provisions of the original and subsequent acts. Work is carried on under his direction by the instructors and students of the department. The varied geology of Maryland and its diversified resources afford a most attractive field to the investigator.

Maryland Weather Service.—The Maryland Weather Service was organized under the joint auspices of the Johns Hopkins University, the Maryland Agricultural College, and the U. S. Weather Bureau, in May, 1891, and was recognized by the Legislature of the State in March, 1892, when provision was also made for its maintenance by the appropriation of $2,000 annually. Professor Clark has been Director of the Bureau since its organization. Observers detailed by the U. S. Weather Bureau have conducted the work. Excellent facilities are afforded the students in Geology to study the methods of weather bureau observation, and to take part in the work themselves whenever they desire to do so.

Advantages afforded by Proximity to Washington.—Washington is less than an hour distant from Baltimore. This renders it possible to take frequent advantage of the facilities afforded by that city, where the officers of the various scientific bureaus and

societies give the students of the University every opportunity to examine the rich collections and libraries under their control. Special return tickets are obtainable by students for one dollar.

Geological Society of Washington.—The advanced students in Geology are members of the Geological Society of Washington, where they have the opportunity of hearing the results of the latest investigations presented by some of the leading workers in the science, and also have the chance to enter into the discussions or offer original papers of their own. The bi-weekly meetings have been frequently attended by the instructors and students of the department.

National Geographic Society.—Like opportunities are open to the advanced students of the University to become members of the National Geographic Society. As some of the most distinguished explorers and scientists lecture before this Society, unusual opportunity is presented to hear the results of their researches.

Scientific Collections and Libraries.—The scientific collections and libraries of the Smithsonian Institution, United States National Museum, and United States Geological Survey, as well as the Library of Congress, are accessible to students under certain conditions.

The Biological Sciences.

The laboratories of the University afford instruction and opportunities for research to properly qualified students in Zoölogy and Botany, in animal Physiology, in human and comparative Anatomy, and in Pathology.

ZOÖLOGY AND BOTANY.

The work in Zoölogy and Botany is directed by Dr. W. K. Brooks, Professor of Zoölogy, assisted by Dr. E. A. Andrews, Associate Professor of Biology, Dr. D. S. Johnson, Associate in Botany, Dr. B. W. Barton, Lecturer in Systematic Botany, and other assistants.

Advanced Zoölogy: Professor Brooks and Associate Professor Andrews.

This course is designed for students who wish to devote themselves to zoölogy, and for those who select zoölogy as the chief subject for the degree of Doctor of Philosophy. The work, which occupies a year, is as follows:

(1). Laboratory work, throughout the year. The student is required to verify the results of certain zoölogical memoirs, which are selected in order to illustrate the application of technical methods, as well as scientific principles, and, also, to study the collateral literature. The work for 1900–1901 was based upon the following memoirs: Weismann, Die Entstehung der Sexualzellen bei den Hydromedusen; Zeigler, Die Entwicklung von Cyclas cornea; Witlaczil, Entwickelungsgeschichte der Aphiden. After he has completed this work the student is allowed more freedom in the selection of subjects.

(2). In 1900–1901, a course of twelve lectures by Professor Brooks, weekly, from October 1 to the Christmas recess, on the Principles of Zoölogy, with selections from Brooks's Foundations of Zoölogy, which was also read in course.

(3). Zoölogical Seminary: weekly throughout the year. The work of the seminary for 1900–1901 was based upon Darwin's Origin of Species and the Embryology of Korschelt and Heider. These books were read in course, and each student was also required to give one or more lectures upon an assigned subject, basing them upon the general literature of the topic.

(4). Zoölogical and Botanical Journal Club: weekly throughout the year; Professor Brooks, Associate Professor Andrews, and Associate Johnson. All graduate students, assistants, and instructors are expected to take part in the meetings of the journal club, and to report upon the current literature of assigned topics.

(5). A course of twelve lectures on Protoplasm, by Associate Professor Andrews.

General Zoölogy and Comparative Anatomy: Professor Brooks and Associate Professor Andrews.

This course is designed for those who intend to teach zoölogy, for those who look forward to advanced studies in zoölogy, for those who desire an acquaintance with the elements of zoölogy and comparative anatomy and embryology, as a part of a liberal education, and for those students who, having completed the

minor course in biology, preliminary to medicine, desire a wider acquaintance with the animal kingdom. The work is as follows:

(1). Two afternoons of work in the laboratory, throughout the year, in systematic zoölogy and comparative anatomy and embryology. The student makes careful dissections and drawings of typical forms from most of the principal groups of vertebrated animals, and studies the systematic zoölogy of the genera and species of one group, either fishes or insects being selected for systematic study. One-third of the time is devoted to the study of the embryology of vertebrates, with the embryo chick, the frog, and the trout as types. While the chief purpose of the work in embryology is to introduce the student to some of the scientific problems of the morphology of vertebrates, the course also provides training in the collection and preservation of embryological material, in the use of hardening and staining reagents, in the preparation and preservation of serial sections for microscopic study, and the reconstruction of drawings and models from sections.

(2). Two lectures a week, from the beginning of the year to the Easter recess, on elementary zoölogy, by Professor Brooks.

(3). Two lectures a week, from the beginning of the year to the Easter recess, on elementary botany, by Dr. Johnson.

(4). Four lectures a week, from the Easter recess to the end of the year, on embryology, by Associate Professor Andrews.

Courses 1, 2, 3, and 4, with laboratory work, five hours a week through the year, constitute a "major course," and may be offered as a subsidiary subject for the degree of Doctor of Philosophy.

Introductory Course in Biology: Associate Professor Andrews and Dr. Barton.

This course, consisting of four lectures and five hours of laboratory work weekly, throughout the year, is designed as part of the general education of every college student, and is open to all candidates for the A. B. degree, as well as to special students. It is regarded as essential to all students intending to take up the study of medicine, and it (or an equivalent) is required for admission to the Medical School. This course may be taken without previous courses in physics and chemistry, but preparatory training of this character is strongly recommended. It is chiefly a laboratory course of two afternoons a week throughout the year,

supplemented by four hours a week of lectures, recitations, and exercises designed to emphasize the more essential truths of biology. In the laboratory, each student studies with the microscope, or dissects, selected plants and animals, from the simpler, such as amoeba and yeast, to the complex, such as the fern, the frog, the flowering-plant, and the rat. He also studies the elements of systematic botany. This course may be offered as a subsidiary subject for the degree of Doctor of Philosophy.

Advanced Botany: Dr. Johnson.

(1). Morphology of Plants. Two lectures and two laboratory exercises a week, throughout the year. A course in the comparative morphology and the classification of the vegetable kingdom, with especial reference to reproduction.

(2). Physiology and Histology of Plants. Two exercises a week, throughout the year. The course is an outline of vegetable physiology and histology.

(3). Botanical Seminary, weekly through the winter term. Strasburger's "Reduktionstheilung Spindelbildung, etc.," formed the basis for the work of the seminary for 1900–1901.

Courses 1, 2, and 3, may be offered as a subsidiary subject for the degree of Doctor of Philosophy.

Elementary Botany: Dr. Johnson.

Four lectures a week, from January 2 to the Easter recess, on elementary Botany, for those who look forward to advanced work in botany, and for those who desire an acquaintance with the elements of botany, as a part of a liberal education.

Students of Botany have access to the extensive herbarium and valuable library of Captain J. Donnell Smith, the Schimper herbarium, the Fitzgerald collection of mosses, the local collections of the Naturalists' Field Club, and the collection of Cryptogams of the late Dr. Humphrey.

The studies which are carried on in the biological laboratory are supplemented by work at the Marine Station, which is established, from time to time, at suitable points upon the sea-shore.

One of the ordinary fellowships in the University is usually awarded, each year, to a graduate student in zoölogy, and, in the

selection of the Adam T. Bruce Fellow, preference is given to those who have held ordinary fellowships in zoölogy.

One of the graduate students of zoölogy may be appointed each year to occupy, during the summer months, the university table at the laboratory of the United States Fish Commission at Wood's Holl.

Whenever researches, or parts of researches, which have been carried on in the laboratory, are completed and ready for publication, the University Circulars provide for the prompt publication of abstracts of the results.

Students looking forward to the degree of Doctor of Philosophy may offer zoölogy as a principal or as a subsidiary subject, but if they have not already pursued studies equivalent to the undergraduate courses in this laboratory, they will be required to take these courses. Those who make zoölogy their principal subject, may select, as subsidiary subjects, any two of these subjects, viz., animal physiology, botany, chemistry, geology, physics,—or any other approved combination.

PHYSIOLOGY.

The work in Physiology is directed by Professor W. H. Howell, assisted by Dr. P. M. Dawson, Instructor and Dr. J. Erlanger and Mr. P. G. Stiles, Assistants in Physiology. The laboratory is contained in the Medical School building adjoining the Hospital, and is well equipped with facilities for demonstrations and special investigations. A course of lectures covering the general and special physiology of the animal body is given each year and is illustrated by a large number of class demonstrations. In connection with this series of lectures, a laboratory course in experimental physiology is offered, extending over a period of twelve weeks and giving the student an introduction to the methods of laboratory technique. A duplicate course, consisting of lectures and laboratory work, has been arranged especially to suit the convenience of graduate students in the Philosophical Department. This course is given in the afternoons from January to June. The general courses of lectures are supplemented by advanced lectures given from time to time upon selected topics; by the work of the physiological seminary, which meets at

stated intervals for the special study of certain parts of physiology; and by a weekly journal club intended for the presentation and discussion of the material contained in the current periodicals. The details of these courses are given in the programme published each year in the University Circulars.

In addition to the physiological literature contained in the library belonging to the laboratory, publications upon physiology and the related scientific branches of medicine may be obtained conveniently from the libraries of the Medical School, the Medical and Chirurgical Faculty of Maryland, and the Surgeon General's office in Washington.

Students looking forward to the degree of Doctor of Philosophy may offer Animal Physiology as a principal or as a subordinate subject. Those who take physiology as a principal subject must present evidence of previous training in physics equivalent to the minor undergraduate course in this University, in chemistry equivalent to the minor and major undergraduate courses, and in biology equivalent to the minor and major undergraduate courses. No preliminary requirements are made for those offering Physiology as a subordinate subject.

The laboratory is open also to special students, graduates in medicine and others, who may wish to undertake laboratory investigations, or who desire to become acquainted with the use of physiological apparatus and the methods of demonstration and research.

ANATOMY.

The work in this department is in charge of Dr. Franklin P. Mall, Professor of Anatomy, with the coöperation of Dr. Ross G. Harrison, Associate Professor of Anatomy, Dr. Charles R. Bardeen, Associate in Anatomy, Dr. Henry McE. Knower, Instructor in Anatomy, Dr. Mervin T. Sudler, Instructor in Anatomy, Dr. John B. MacCallum, Assistant in Anatomy, and Dr. Warren H. Lewis, Assistant in Anatomy.

Courses of instruction are provided in the various anatomical sciences — systematic human anatomy, histology, microscopic anatomy, and embryology,—and opportunities are afforded for advanced work and original investigation in these sciences.

The systematic courses of instruction are given in two groups of parallel courses, from October 1 to March 15. The first of

these groups includes histology, microscopic anatomy, and neurology; the second embraces the subject of gross systematic human anatomy. These courses are designed primarily for the medical students of the University, but are open to other students who are properly qualified. A more detailed description of them will be found in the announcement of the Medical School.

The Anatomical Laboratory is a large building, three stories high, having been constructed especially for the teaching of anatomy and for investigation in this subject. The modern machines and apparatus likely to be needed have been provided. Rooms and apparatus for animal experimentation, mechanisms of convenience for drawing and reconstruction, projection apparatus, photomicrographic outfit, and apparatus for work at low temperatures are at hand. A large collection of serial sections through human and animal embryos of different ages is available in connection with research in human embryology, and sets of serial sections, coronal, horizontal and sagittal, through the human rhombencephalon and cerebrum may be used by investigators in neurology. Facilities are afforded for the artistic illustration and publication of the results of researches leading to discoveries of importance. Every encouragement is given to suitably trained individuals who desire to undertake original investigation, either under direction or independently.

PATHOLOGY.

The Pathological Laboratory is a building of four stories on the grounds of the Johns Hopkins Hospital, with which it is connected. The autopsy theatre is in this building, which includes also rooms for pathological histology, bacteriology, experimental pathology, and private work. The museum contains a useful collection of morbid specimens.

The libraries of the Johns Hopkins Hospital and of the Medical School close to the laboratory contain a large number of books of reference and receive regularly the chief medical and pathological journals.

Facilities are afforded for elementary and advanced study in general and special pathological anatomy, general pathology, and

bacteriology. The instruction in pathology is given by Professor Welch and Drs. MacCallum, Harris, Opie, and Marshall.

The instruction in Pathology and Bacteriology for matriculates in the Medical School continues throughout the second year of the regular medical course. It includes general pathology, gross morbid anatomy, pathological histology, the technique of post-mortem examinations and practical bacteriology. The laboratory work occupies three half-days a week.

A course in Pathological Histology for physicians is given during the months of May and June. This course presupposes on the part of the student a knowledge of normal histology. In connection with the course, demonstrations of fresh pathological specimens are made and opportunity is afforded to become familiar with the method of making post-mortem examinations. After the study of inflammation, the pathological histology of the different tissues and organs of the body is taken up in regular order. Microscopical sections are given to be stained, mounted, and carefully studied and drawn. The student is encouraged to do as much independent work as his time will permit.

The instruction in Bacteriology is given by Professor Welch, Dr. Harris, and other assistants. In addition to the course for matriculates in the medical department, courses in this subject are given to physicians in May and June. Students are taught the preparation of culture media, the principles of disinfection and sterilization, methods of cultivating, staining, and studying bacteria, particularly those of a pathogenic nature, and the biological examination of the air, water, and soil. This department is fully supplied with the requisite apparatus and cultures for bacteriological work.

In addition to the regular courses for medical students and physicians, opportunity is afforded for advanced work and special research in pathology and bacteriology. For these purposes the Pathological Laboratory is well equipped with the necessary apparatus and material. Special subjects for research will be assigned to those who wish and are prepared to undertake original investigation.

Instruction in Clinical Microscopy is given to physicians, during May and June, in the Clinical Laboratory.

The Pathological Laboratory being upon the same grounds with the Johns Hopkins Hospital and Dispensary, the oppor-

tunities are convenient and readily accessible for combining clinical studies with the work in pathology.

Three associations, the Hospital Medical Society, the Historical Club, and the Journal Club, meet in the assembly room of the Hospital, one each Monday evening. The libraries of the University and the Hospital are supplied with a large collection of medical books and periodicals, which are accessible to the student.

The Johns Hopkins Hospital Bulletin, issued monthly, and the Johns Hopkins Hospital Reports contain the proceedings of the Hospital societies, articles by the medical staff, and the results of researches conducted in the Hospital and the medical laboratories.

The Journal of Experimental Medicine, now in its sixth volume, under the editorial direction of Professor Welch, also contains reports of researches carried on in the physiological and pathological laboratories here and elsewhere.

Fuller details concerning the courses in Pathology and other medical subjects will be found in the Annual Catalogue and Announcement of the Medical Department, which will be sent upon application to the Dean.

Drawing.

The instruction in drawing is arranged to give the students a general knowledge of the subject, as far as the time at command will permit, while those who show particular aptitude are encouraged to follow special courses. The instruction is given by Mr. S. E. Whiteman.

Undergraduates take up the subject as one of their required studies, unless they can show a fair degree of proficiency attained elsewhere. Graduate and special students are allowed the privilege of receiving such instruction as may be most helpful to them in their respective fields of work. Those who look forward to scientific pursuits, especially those who study natural history, physics, applied mathematics and mechanics, find these courses of great value.

The undergraduate course is designed to form part of the general education of the student. It aims to impart such knowl-

edge of the principles of drawing, with extended practice in the application of the same, as shall best serve to educate the eye and to train the hand,—the one to see correctly, and the other to express accurately the appearance of forms. The course includes freehand and mechanical drawing. Students may have the option of freehand drawing alone throughout the year, and drawings made in the course in systematic botany may be accepted as an equivalent for the work of the last twelve weeks of the course in freehand drawing. In the freehand drawing, the student is at once set to draw from models, beginning with elementary forms, and proceeding through a series of exercises till he is able to produce a fair drawing of any simple object or group of objects, in outline and in light and shade. The chief mediums used are charcoal and crayon. The use of drawing instruments is taught, and the constructive processes are applied which are in general use in instrumental drawing. The elements of descriptive geometry are afterwards taken up in this course, and the fundamental principles of orthographic, scenographic, and isometric projections are worked out and applied in carefully executed drawings, finished in ink. Precision and fidelity are insisted on, and no careless work is allowed, nor is any copying permitted. Each student receives the personal attention and guidance of the instructor. With the exactness of pen-and-ink work on the one hand and the freedom of charcoal on the other, the student attains a power of graphic expression which will be of service to him in almost any pursuit. The instruction in mechanical drawing will be found of great value to students who are looking forward to courses in engineering or applied science.

The special instruction in drawing is necessarily of such a nature as is best adapted to the requirements of the individual student: freehand drawing from natural forms, in charcoal and in water color; from plaster casts, in charcoal and crayon; advanced work in descriptive geometry. This special instruction includes work for students preparing for the courses in Medicine and Biology, but of a character more directly applied to these studies, with a view to illustrating the work of these courses.

Public Speaking and Class Debate.

Undergraduate students in their first year are trained in the art of public speaking and public reading, and this training is continued throughout the second and third years of the college course. The art of debate and extemporaneous speaking is practiced in a so-called College Congress, in which instruction is given in parliamentary law, under the direction of Dr. Guy Carleton Lee, who guides the students in the collection of materials for debate and in the preparation of briefs. Special facilities are offered by the historical department for the use of documents, pamphlets, and newspaper articles. Opportunity is offered to graduate students for instruction and practice in extemporaneous speaking and public lecturing.

Physical Training.

A careful examination of each undergraduate is made by the director, and such exercises are prescribed as are most suitable to his needs. Systematic exercise is required of all undergraduates during their first year of residence; in subsequent years this is not compulsory. The use of the gymnasium is optional in the case of graduate students.

The Gymnasium is a new building, 127 feet long by 35 feet wide, and is provided with convenient lockers, baths, etc., as well as with the newest forms of apparatus. Adjoining the gymnasium proper is a "Cage,"—an enclosed and covered space for practice in running and in athletic sports,—127 feet long, 66 feet wide, and 30 feet high.

In order to prevent ill-advised participation in outdoor sports, and to guard against over-indulgence in training, the athletic teams of the university are under the control of the director of Physical Training. No student is allowed to become a member of a team unless he has made the required strength test.

THE DEGREE OF DOCTOR OF PHILOSOPHY.

REGULATIONS.

[Adopted by the Board of University Studies, February 26, 1898.]

The degree of Doctor of Philosophy is offered to students who have followed advanced courses of university study for a period of not less than three years, under suitable guidance and favorable conditions, and who have submitted an acceptable dissertation and passed the prescribed examinations.

In order to be accepted by the Board of University Studies as a candidate for the degree of Doctor of Philosophy, the student must give evidence that he has completed such a liberal undergraduate course of academic study antecedent to the baccalaureate degree as is offered by colleges of good standing.

He must then follow advanced studies in the departments of knowledge which he may have chosen, and these studies must be pursued without serious distractions, under qualified teachers, for a period of at least three years. Private study, or study pursued at a distance from libraries and laboratories and other facilities, will not be considered as equivalent to university study.

The Board reserves the right to decide in each case whether the antecedent training has been satisfactory, and, if any of the years of advanced work have been passed by the candidate away from this university, whether they may be rightly regarded as spent in university studies under suitable guidance and favorable conditions.

In order that students may receive the definite counsel of the proper authorities with respect to their future course, they are advised to offer themselves as "candidates" for this degree as soon, after entrance, as their purposes are formed. At least one academic year must be passed in this university, and in every case the year immediately preceding the final examinations.*

* In case a student has complied with all the conditions and has practically completed his preparation for the final examinations, and is prevented by good reason from presenting himself, he should ask the Board to appoint a later day for his examination.

Correspondence on the foregoing matters should be addressed to the Registrar of the University.

Requirements for the Degree.

Every candidate for the degree of Doctor of Philosophy must select one principal and two subordinate subjects, the combination to be approved by the Board of University Studies. These must be pursued without serious distraction and under the general direction of the Professor in the principal subject of study, who is the official adviser of the candidate. The student must prepare a satisfactory dissertation, and must pass with credit certain written and oral examinations in his chosen departments of study.

Acceptance of the Candidate.

A student wishing to be considered a candidate for the degree must make formal application to the Board of University Studies to be enrolled, and must be accepted by the Board at least an academic year* in advance of the time when he expects to present himself for examination in his principal subject. A blank form is provided for the purpose. After filling out this form, the student must present himself before the examiners in French and German at one of the stated examinations in these subjects. When their certificates are affixed to his application, he is to obtain the signatures of approval of the Professors in the departments concerned. The application, thus completed, is then to be presented to the Board for its final action.

Requirements in French and German.

a. The candidate must be able to translate French and German at sight. Familiarity with journals and monographs pertaining to his principal department of study will satisfy this requirement.

b. Examinations are held in these languages at the middle and end of each academic year, at one of which times the candidate must present himself. In October, there is provided a special examination for students who were not connected with the University during the previous academic year.

* The acceptance of a candidate by the Board at its October meeting is regarded as an acceptance at the beginning of an academic year.

c. Students who have not acquired a reading knowledge of these languages before engaging in graduate study are advised to pursue a course organized for that purpose, during their first year. Absolving the class examination at the end of this course will be construed as satisfying this requirement for the degree of Doctor of Philosophy.

Requirements in the Subordinate Subjects.

The subordinate subjects are of two grades, and are known respectively as the first subordinate and the second subordinate. Each of these subjects shall be followed by the candidate for a portion of his time, during at least one year of graduate study.

It is impossible to define with precision the amount of time to be devoted to the subordinate subjects. In general, however, it may be stated that the two subordinate subjects, taken together, should represent one year's work, two-thirds of this time being devoted to the first subordinate subject.

Dissertation.

a. The dissertation must be written upon a theme approved by the adviser of the candidate, and must be completed and submitted to the Board at least four weeks before the written examinations in the principal subject are held, unless the adviser recommends a later date. The dissertation must be legibly written, or typewritten, or printed, and paged and bound. If in manuscript, the paper must be of a prescribed form, samples of which may be seen at the office of the Registrar. This copy is to be placed on file and become the property of the University.

b. The Board shall designate two or more referees, who shall present a written report on the dissertation,—said report to be filed. In the intervals between the sessions of the Board, the President shall have power to appoint the referees.

c. The candidate shall print the dissertation in full or in part,—if in part, to the extent of not less than twenty-four octavo pages; these twenty-four pages may contain either an abstract or a section of the dissertation,—under the supervision of his adviser, within one year of the time when the degree is conferred, and shall present one hundred and fifty copies of the work to the Uni-

versity. A biographical sketch of the author shall be appended to the dissertation in both its manuscript and its printed form.

d. If the required number of printed copies have not been presented to the University, a deposit of $50, to insure the printing within the specified period, shall be made by the candidate at the treasurer's office before the degree is conferred. This deposit shall be returned to him when the printed copies are presented to the University.

e. If the required number of printed copies should not be presented to the University within the specified time, the Board may declare the deposit forfeited, and may apply the amount in printing such portions as the adviser may deem proper.

Examinations.

a. The candidate shall be given written examinations in the principal subject and, wherever practicable, in both subordinate subjects, and an oral examination, before the Board, in the principal and in the first subordinate subject.

b. The candidate shall be permitted to take the written examinations in both the first and second subordinates at the end of the respective years in which the courses in these subjects were completed, or whenever he is ready, at the discretion of the examiner.

c. The Professors in the several departments of study shall prepare written reports on the result of the examinations. These reports, together with the questions and answers, shall be laid before the Board at the oral examination and the reports filed.

d. In the written examinations no one session shall exceed five hours.

e. In the oral examinations before the Board, the time allotted to each examination shall be one hour, and three-quarters of this time shall be devoted to the principal subject.

Degree.

The names of the candidates found worthy of the degree will be submitted to the Board of Trustees, and with their approbation the degree will be publicly conferred.

COLLEGIATE INSTRUCTION.

In addition to the instruction provided for graduate students, the Johns Hopkins University makes ample provision for collegiate instruction. Its work was originally organized to meet the needs of those desiring a systematic discipline in liberal studies, as well as to furnish additional opportunities to persons who had already received a college training. The courses offered to undergraduates are maintained with no less care and thoroughness than those intended for advanced students; the oldest and most experienced members of the academic staff coöperate in the conduct of them. No small part of the influence and usefulness of the University is in connection with the collegiate classes, in which, since 1876, fifteen hundred students have been enrolled.

Certain features of organization and administration have contributed to the effectiveness of the undergraduate work. The scrupulous observance of the distinction between the disciplinary methods appropriate to college teaching and the freer methods of advanced instruction; the "group" arrangement of studies, combining a reasonable liberty of choice with a sufficient exercise of authority; the facilities afforded young men of superior capacity for carrying their studies beyond the requirements of graduation; the influence upon younger pupils of the presence of a large body of graduate scholars conducting investigations in all the great departments of learning:—these conditions have proved favorable to the development of earnestness and scholarly devotion.

ARRANGEMENT OF COURSES.

The courses of study open to undergraduates are arranged in (a) the curriculum prescribed for candidates for matriculation; (b) the several "groups" offered to matriculated students.

(a). CURRICULUM PRESCRIBED FOR CANDIDATES FOR MATRICULATION.

The standard of matriculation maintained at the Johns Hopkins University is considerably higher than that maintained by institutions which require a residence of four years in order to graduation. In the Baltimore City College, and in several private schools of Baltimore, young men may be prepared to pass the matriculation examination; but many are unable to secure, in the places where they reside, instruction which will fit them to meet the requirements here exacted. As a consequence, many students who have desired to enter the University have been unable to do so, and some who have entered have done so only under the embarrassment and vexation of "conditions." In order to meet this difficulty, terms of admission are now designated (see page 175), corresponding to the terms of admission to other colleges of established reputation, and students who satisfy these requirements are admitted to a prescribed course of study adapted to prepare them, at the end of a year, for full matriculation.

The course of study prescribed for these students is as follows:—

1. MATHEMATICS. *Four hours weekly.*
   Algebra (special topics).
   Solid Geometry.
   Plane Trigonometry,
   Analytic Geometry (straight line and loci).
2. LATIN. *Three hours weekly.*
   Cicero, *De Senectute.*
   Sallust, *Catiline.*
   Ovid (selections).
   Sight Reading and Prose Composition.

3. GREEK. *Three hours weekly.*
   Homer, *Iliad*, book vi.
   Herodotus, book vii.
   Sight Reading and Prose Composition.

4. GERMAN OR FRENCH.
   (*a*) For students offering Greek at entrance. *Three hours weekly.*
   German: Thomas's *Practical German Grammar;* Vos, *Materials for German Conversation;* E. S. Buchheim's *Short German Plays* (Clarendon Press); Heyse, *L'Arrabbiata.*
   French: Joynes's *Minimum Grammar and Reader;* Kuhn's *French Reader;* J. Verne, *L'Expédition de la Jeune-Hardie;* Thiers, *Expédition de Bonaparte en Egypte.*
   After completing one of these courses, students are required to take Minor A in their groups.
   (*b*) For students not offering Greek at entrance. *Four hours weekly.*
   The minor course, Class A, in either German or French.

5. RHETORIC AND ENGLISH COMPOSITION. *Three hours weekly.*
   Principles of Rhetoric.
   Rhetorical Analysis.
   Practice in writing.
   Students taking Greek may defer this course until after matriculation.

6. FREEHAND AND MECHANICAL DRAWING.

(b). GROUPS OFFERED TO MATRICULATED STUDENTS.

After matriculation, the student is expected to follow one of several distinct and parallel courses of instruction known as "groups." These are seven in number, each comprising (1) studies common to all the groups and required of all undergraduates, (2) studies peculiar to a group, (3) optional studies. The groups are assumed to be equally honorable and difficult, and are intended to combine liberty of election on the part of the student with sufficient exercise of authority to prevent discursive and ill-considered work. Each group contains two principal studies, both of which extend through two years of instruction. These are: (1) Latin and Greek, (2) Mathematics and Physics, (3) Chemistry and Biology, (4) Geology and Biology, (5) Latin and Mathematics, (6) History and Political Science, (7) English, with German or French.

The student must follow strictly the group which he has chosen; or, under the regulations hereinafter stated (see page 168, section *b*),

he may substitute, with the approval of his adviser, other studies for two—in certain cases, for three—of the courses laid down in his group.

Students who have passed French or German as the principal subject in place of Greek for matriculation, are required to substitute for it some other subject, or to take an advanced course in one of these languages. Any undergraduate course approved by the adviser may be chosen for this purpose.

In these ways the course of study in the several groups may be modified; while those who wish to concentrate their attention in the more thorough study of a special field, will find it advantageous to accept the groups as they stand.

The optional courses in Science and Literature vary from year to year, and may be followed by the student according to his tastes and acquisitions. The arrangements of the University allow those who have capacity for more than is prescribed, to broaden their studies by attendance upon the public lectures from time to time provided; and, if time permits, they may also take longer or shorter courses not actually required of them.

Each group contains twelve courses. Eight of these are four-hour courses,—each representing four hours of class-work weekly for a year. Of the others, two—the course in Rhetoric and that in English Literature—are three-hour courses; one is an elective of two hours in the third year; and one—the course in Philosophy—occupies five hours weekly through one year. Rhetoric, English Literature, and Philosophy form a part of each group. A course in Economics and History is also included in each group. Each group contains at least one year of French and one year of German, and at least one year of attention to a scientific subject, including the performance of the work prescribed in the laboratory. The instruction in Drawing and in Vocal and Physical Culture is additional to these twelve courses.

1. *The Classical Group.*

The Classical group corresponds in the main to what has been the ordinary course of study in our colleges, the requisite mathematics having been secured before matriculation. The emphasis is laid upon Latin and Greek, each of which is studied two years.

Rhetoric, English Literature, French, German, one subject involving a year of laboratory work, Economics and History, Comparative Philology, Philosophy, and an elective subject occupying two hours weekly in the third year, are also included, together with Drawing and Vocal and Physical Culture.

2. *The Mathematical-Physical Group.*

The Mathematical-Physical group substitutes two years of Mathematics and two years of Physics for Latin and Greek, adding also a year of Chemistry, the other studies being the same as in the classical group. This course affords a good basis for the subsequent study of Electricity, Engineering, Astronomy, and other subjects largely dependent on the science of Mathematics.

3. *The Chemical-Biological, or Preliminary Medical, Group.*

The Chemical-Biological group prepares the student to enter at once upon the studies of the Johns Hopkins Medical School, and is also a good preparation for the study of medicine elsewhere, or for the professional study of Natural History. It provides instruction in Physics, Chemistry, and Biology, with laboratory practice. The requirements in French, German, English, History, and Philosophy are the same as in the other groups.

4. *The Geological-Biological Group.*

The Geological-Biological group furnishes a good fundamental training in the sciences, providing a year's course each in Biology, Physics, and Chemistry, and a two year's course in Geology. It affords a broad education in scientific studies, and prepares the student both to appreciate scientific methods, and to pursue advanced courses in Geology, later, should he so desire.

5. *The Latin-Mathematical Group.*

The Latin-Mathematical group affords a good fundamental training, without the study of Greek. It differs from the classical group only in substituting Mathematics for Greek.

6. *The Historical-Political Group.*

The Historical-Political group furnishes a basis for the subsequent study of law. It omits Greek and retains but one year of Latin, providing two years of History and two years of Economic and Political Science.

7. *The Modern Language Group.*

The Modern Language group is designed for those who wish a literary training based upon the modern rather than upon the ancient languages. It substitutes for Greek two years of English, and, retaining one year of Latin, substitutes for the other an additional year of either French or German. If the student is already proficient in French or German, he may substitute a year of Spanish or Italian for one of these languages.

Detailed statements respecting the groups are given in the succeeding pages.

First Group. (*Classical*).

First Year.

LATIN.

CLASS WORK. (9 a. m.) *Four hours weekly.*

Livy (two books).
Horace (selections).
Prose Composition.

PRIVATE READING:

Cæsar, *Bellum Civile* (book i).
Tacitus, *Germania.*
Ovid, *Fasti* (selections).
Vergil, *Æneid* (books ix, xii).

RHETORIC AND ENGLISH COMPOSITION. (12 m.) *Three hours weekly.*

Principles of Rhetoric.
Rhetorical Analysis.
Practice in Writing.

GREEK.

CLASS WORK. (1 p. m.) *Four hours weekly.*

Andocides, *de Mysteriis.*
Lysias, *Epitaphius.*
Euripides (one play).
Prose Composition.

PRIVATE READING:

Xenophon, *Hellenica* (book i).
Homer, *Iliad* (books xvi, xviii).

LABORATORY COURSE. *Four hours class-work weekly.*

Chemistry* (9 a.m.), *or*
Physics (10 a. m.), *or*
Biology (10 a. m.).
} Lectures, recitations, and laboratory work.

Second Year.

LATIN.

CLASS WORK. (10a.m.) *Four hours weekly.*

Catullus and the Elegy.
Plautus (one play).
Terence (one play).
Prose Composition.

PRIVATE READING:

Quintilian (book x).
Plautus, *Miles Gloriosus.*

ENGLISH LITERATURE. *Three hours weekly.*

Outline History.
Critical Study of Important Writers.
Private Reading.

GREEK.

CLASS WORK. (12 m.) *Four hours weekly.*

Plato, *Protagoras.*
Selections from the elegiac, melic, and iambic poets.
Sophocles (one play).
Reading at sight.
Prose Composition.

PRIVATE READING:

Æschylus, *Prometheus.*
Aristophanes (one play).

GERMAN. (11 a. m.) *Four hours weekly.*

Otis's *Elementary German.*
Whitney's *Grammar.*
Brandt's *German Reader.*
Von Moser, *Der Bibliothekar.*
Goethe, *Egmont.*
Prose Composition.

Third Year.

PHILOSOPHY. (11 a. m.) *Five hours weekly.*

Logic, Psychology, and Ethics.

HISTORY AND ECONOMICS. (10 a. m.) *Four hours weekly.*

Historical Politics. *Two hours.*
Elements of Economics.
Applied Economics.
} *Two hours.*

ELECTIVE COURSE.† *Two hours weekly.*

FRENCH. (12 m.) *Four hours weekly.*

Joynes, *Minimum French Grammar;* Malot, *Sans Famille;* Erckmann-Chatrian, *Le Conscrit de 1813;* Mérimée, *Colomba;* Legouvé, *La Cigale chez les Fourmis;* Augier, *Le Gendre de M. Poirier;* Pailleron, *Le Monde où l'on s'ennuie.*

COMPARATIVE PHILOLOGY.

One hour weekly.

*If Chemistry be chosen, it should be taken in the second year, and German in the first year.

†For 1901–1902, elective courses are offered in the following subjects: Differential Equations, Zoölogy or Botany, Hebrew, Latin, Greek, German, French, Italian, Spanish, English Literature, History of Philosophy (one hour).

Second Group. (*Mathematical-Physical*).

First Year.

GERMAN. (11 a. m.) *Four hours weekly.*
- Classics: Schiller, *Maria Stuart;* Goethe, *Hermann und Dorothea.*
- Prose Reading: Chamisso, *Peter Schlemihl;* Baumbach, *Erzählungen und Märchen.*
- Composition.
- Sight Reading.
- Private Reading: Gutskow, *Zopf und Schwert.*

MATHEMATICS. *Four hours weekly.*
- Plane Analytic Geometry.
- Differential and Integral Calculus.

CHEMISTRY. (9 a. m.) *Four hours class-work weekly.*
- General Chemistry.
- Laboratory Work. (*Five hours weekly.*)

RHETORIC AND ENGLISH COMPOSITION. (12 m.) *Three hours weekly.*
- Principles of Rhetoric.
- Rhetorical Analysis.
- Practice in Writing.

Second Year.

PHYSICS. (10 a. m.) *Four hours class-work weekly.*
- Elementary Mechanics.
- Sound.
- Heat.
- Electricity and Magnetism.
- Light.
- Laboratory Work. (*Three hours weekly.*)

MATHEMATICS. (9 a. m.) *Four hours weekly.*
- Determinants.
- Differential and Integral Calculus (special topics).
- Theory of Equations.
- Elements of Projective Geometry.
- Analytic Geometry of Three Dimensions.

FRENCH. (12 m.) *Four hours weekly.*
- Hugo, *Hernani;* Molière, *Les Femmes Savantes;* Corneille, *Le Cid;* Sandeau, *Mlle. de la Seiglière;* Dumas, *L'Ami des Femmes;* Scribe, *Bataille des Dames;* De Musset, *On ne Badine pas avec l'Amour;* Rostand, *Cyrano de Bergerac.*
- Short Outline of French Literature (XVII-XIX Centuries).
- Prose Composition and Syntax.
- Exercises in Pronunciation, Recitation, and Conversation; Oral and Written Reports in French; Private Reading.

ENGLISH LITERATURE. *Three hours weekly.*
- Outline History.
- Critical Study of Important Writers.
- Private Reading.

Third Year.

PHILOSOPHY. (11 a. m.) *Five hours weekly.*
- Logic, Psychology, and Ethics.

HISTORY AND ECONOMICS. (10 a. m.) *Four hours weekly.*
- Historical Politics. *Two hours.*
- Elements of Economics. } *Two hours.*
- Applied Economics. }

PHYSICS. (12 m.) *Four hours class-work weekly.*
- Mechanics.
- Thermodynamics.
- Electricity and Magnetism.
- Physical Optics.
- Laboratory Work. (*Five hours weekly.*)

ELECTIVE COURSE.* *Two hours weekly.*

*For 1901-1902, elective courses are offered in the following subjects: Differential Equations, Zoölogy or Botany, Hebrew, Latin, Greek, German, French, Italian, Spanish, English Literature, History of Philosophy (one hour).

Students who have passed French or German as the principal subject in place of Greek for matriculation, must substitute some other four-hour course.

Third Group. (*Chemical-Biological*).

First Year.

PHYSICS. (10 a. m.) *Four hours class-work weekly.*
- Elementary Mechanics.
- Heat.
- Electricity and Magnetism.
- Sound.
- Light.
- Laboratory Work. (*Three hours weekly.*)

RHETORIC AND ENGLISH COMPOSITION. (12 m.) *Three hours weekly.*
- Principles of Rhetoric.
- Rhetorical Analysis.
- Practice in Writing.

CHEMISTRY. (9 a. m.) *Four hours class-work weekly.*
- General Chemistry.
- Laboratory Work. (*Five hours weekly.*)

GERMAN. (11 a. m.) *Four hours weekly.*
- Classics: Schiller, *Maria Stuart;* Goethe, *Hermann und Dorothea.*
- Prose Reading: Chamisso, *Peter Schlemihl;* Baumbach, *Erzählungen und Märchen.*
- Composition.
- Sight Reading.
- Private Reading: Gutzkow, *Zopf und Schwert.*

Second Year.

CHEMISTRY. (9 a. m.) *Four hours class-work weekly.*
- Advanced Inorganic Chemistry.
- Chemistry of Carbon Compounds.
- Laboratory Work. (*Five hours weekly.*)

BIOLOGY. (10 a. m.) *Four hours class-work weekly.*
- General Biology.
- Elements of Systematic Botany.
- Laboratory Work. (*Five hours weekly.*)

ENGLISH LITERATURE. *Three hours weekly.*
- Outline History.
- Critical Study of Important Writers.
- Private Reading.

FRENCH. (12 m.) *Four hours weekly.*
- Hugo, *Hernani;* Molière, *Les Femmes Savantes;* Corneille, *Le Cid;* Sandeau, *Mlle. de la Seiglière;* Dumas, *L'Ami des Femmes;* Scribe, *Bataille des Dames;* De Musset, *On ne Badine pas avec l'Amour;* Rostand, *Cyrano de Bergerac.*
- Short Outline of French Literature (XVII-XIX Centuries).
- Prose Composition and Syntax.
- Exercises in Pronunciation, Recitation, and Conversation; Oral and Written Reports in French.
- Private Reading.

Third Year.

BIOLOGY. (9 a. m.) *Four hours class-work weekly.*
- Elements of Zoölogy and Comparative Anatomy.
- Elements of Botany.
- Embryology.
- Laboratory Work. (*Five hours weekly.*)

ELECTIVE COURSE.† *Two hours weekly.*

PHILOSOPHY. (11 a. m.) *Five hours weekly.*
- Logic, Psychology, and Ethics.

HISTORY AND ECONOMICS. (10 a. m.) *Four hours weekly.*
- Historical Politics. *Two hours.*
- Elements of Economics. } *Two hours.*
- Applied Economics. }

† For 1901-1902, elective courses are offered in the following subjects: Differential Equations, Hebrew, Latin, Greek, German, French, Italian, Spanish, English Literature, History of Philosophy (one hour).

Students who have passed French or German as the principal subject in place of Greek for matriculation, must substitute some other four-hour course.

Fourth Group. (*Geological-Biological.*)

First Year.

CHEMISTRY. (9 a. m.) *Four hours class-work weekly.*
- General Chemistry.
- Laboratory Work. (*Five hours weekly.*)

GERMAN. (11 a. m.) *Four hours weekly.*
- Classics: Schiller, *Maria Stuart;* Goethe, *Hermann und Dorothea.*
- Prose Reading: Chamisso, *Peter Schlemihl;* Baumbach, *Erzählungen und Märchen.*
- Composition.
- Sight Reading.
- Private Reading: Gutzkow, *Zopf und Schwert.*

PHYSICS. (10 a. m.) *Four hours class-work weekly.*
- Elementary Mechanics.
- Heat.
- Electricity and Magnetism.
- Sound.
- Light.
- Laboratory Work. (*Three hours weekly.*)

RHETORIC AND ENGLISH COMPOSITION. (12 m.) *Three hours weekly.*
- Principles of Rhetoric.
- Rhetorical Analysis.
- Practice in Writing.

Second Year.

GEOLOGY. (1 p. m.) *Four hours class-work weekly.*
- Physical Geology.
- Outline Paleontology.
- Historical Geology.
- Laboratory Work. (*Three hours weekly*).
- Excursions.

BIOLOGY. (10 a. m.) *Four hours class-work weekly.*
- General Biology.
- Elements of Systematic Botany.
- Laboratory Work. (*Five hours weekly.*)

FRENCH. (12 m.) *Four hours weekly.*
- Hugo, *Hernani;* Molière, *Les Femmes Savantes;* Corneille, *Le Cid;* Sandeau, *Mlle. de la Seiglière;* Dumas, *L'Ami des Femmes;* Scribe, *Bataille des Dames;* De Musset, *On ne Badine pas avec l'Amour;* Rostand, *Cyrano de Bergerac.*
- Short Outline of French Literature (XVII–XIX Centuries.)
- Prose Composition and Syntax.
- Exercises in Pronunciation, Recitation, and Conversation; Oral and Written Reports in French; Private Reading.

ENGLISH LITERATURE. *Three hours weekly.*
- Outline History.
- Critical Study of Important Writers.
- Private Reading.

Third Year.

PHILOSOPHY. (11 a. m.) *Five hours weekly.*
- Logic, Psychology, and Ethics.

HISTORY AND ECONOMICS. (10 a. m.) *Four hours weekly.*
- Historical Politics. *Two hours.*
- Elements of Economics. } *Two hours.*
- Applied Economics. }

GEOLOGY. (12 m.) *Four hours class-work weekly.*
- Crystallography.
- Descriptive Mineralogy.
- Elementary Petrography.
- Laboratory Work. (*Three hours weekly*).
- Excursions.

ZOOLOGY *or* BOTANY. (Elective.)* *Two hours weekly.*

*One of the following two-hour elective courses may be substituted for Zoology or Botany: Differential Equations, Hebrew, Latin, Greek, German, French, Italian, Spanish, English Literature.

Students who have passed French or German as the principal subject in place of Greek for matriculation, must substitute some other four-hour course.

Fifth Group. (*Latin-Mathematical.*)

First Year.

LATIN.

CLASS WORK. (9 a.m.) *Four hours weekly.*

Livy (two books).
Horace (selections).
Prose Composition.

PRIVATE READING:

Cæsar, *Bellum Civile* (book i).
Tacitus, *Germania.*
Ovid, *Fasti* (selections).
Vergil, *Aeneid* (books ix, xii).

MATHEMATICS. *Four hours weekly.*

Plane Analytic Geometry.
Differential and Integral Calculus.

RHETORIC AND ENGLISH COMPOSITION. (12 m.) *Three hours weekly.*

Principles of Rhetoric.
Rhetorical Analysis.
Practice in Writing.

LABORATORY COURSE. *Four hours class-work weekly.*

Chemistry* (9 a.m.), *or*
Physics (10 a. m.), *or*
Biology (10 a. m.). } Lectures, recitations, and laboratory work.

Second Year.

LATIN.

CLASS WORK. (10 a.m.) *Four hours weekly.*

Catullus and the Elegy.
Plautus (one play).
Terence (one play).
Reading at Sight.
Prose Composition.

PRIVATE READING:

Quintilian (book x).
Plautus, *Miles Gloriosus.*

ENGLISH LITERATURE. *Three hours weekly.*

Outline History.
Critical Study of Important Writers.
Private Reading.

MATHEMATICS. (9 a. m.) *Four hours weekly.*

Determinants.
Differential and Integral Calculus (special topics).
Theory of Equations.
Elements of Projective Geometry.
Analytic Geometry of Three Dimensions.

GERMAN. (11 a. m.) *Four hours weekly.*

Classics: Schiller, *Maria Stuart;* Goethe, *Hermann und Dorothea.*
Prose Reading: Chamisso, *Peter Schlemihl;* Baumbach, *Erzählungen und Märchen.*
Composition.
Sight Reading.
Private Reading: Gutzkow, *Zopf und Schwert.*

Third Year.

FRENCH. (12 m.) *Four hours weekly.*

Hugo, *Hernani;* Molière, *Les Femmes Savantes;* Corneille, *Le Cid;* Sandeau, *Mlle. de la Seiglière;* Dumas, *L'Ami des Femmes;* Scribe, *Bataille des Dames;* De Musset, *On ne Badine pas avec l'Amour;* Rostand, *Cyrano de Bergerac.*
Short Outline of French Literature (XVII-XIX Centuries).
Composition and Syntax.
Exercises in Pronunciation, Recitation, and Conversation; Oral and Written Reports in French; Private Reading.

PHILOSOPHY. (11 a. m.) *Five hours weekly.*

Logic, Psychology, and Ethics.

HISTORY AND ECONOMICS. (10 a. m.) *Four hours weekly.*

Historical Politics. *Two hours.*
Elements of Economics. } *Two hours.*
Applied Economics.

ELECTIVE COURSE.† *Two hours weekly.*

*If Chemistry be chosen, it should be taken in the third year, German in the first year, and French in the second year.

†For 1901-1902, elective courses are offered in the following subjects: Differential Equations, Zoölogy or Botany, Hebrew, Latin, Greek, German, French, Italian Spanish, English Literature, History of Philosophy (one hour).

Students who have passed French or German as the principal subject in place of Greek for matriculation, must substitute some other four-hour course.

Sixth Group. (*Historical-Political.*)

First Year.

GERMAN. (11 a. m.) *Four hours weekly.*
- Classics: Schiller, *Maria Stuart;* Goethe, *Hermann und Dorothea.*
- Prose Reading: Chamisso, *Peter Schlemihl;* Baumbach, *Erzählungen und Märchen.*
- Composition.
- Sight Reading.
- Private Reading: Gutzkow, *Zopf und Schwert.*

RHETORIC AND ENGLISH COMPOSITION. (12 m.) *Three hours weekly.*
- Principles of Rhetoric.
- Rhetorical Analysis.
- Practice in Writing.

ANCIENT HISTORY. (10 a. m.) *Four hours weekly.*
- Greece.
- Rome.
- Readings from Classical Historians.

LATIN.

CLASS WORK. (9 a. m.) *Four hours weekly.*
- Livy (two books).
- Horace (selections).
- History of Roman Literature.
- Sight Reading.

PRIVATE READING:
- Cæsar, *Bellum Civile* (book i).
- Tacitus, *Germania.*
- Ovid, *Fasti* (selections).
- Vergil, *Aeneid* (books ix, xii).

Second Year.

HISTORY. (11 a. m.) *Four hours weekly.*
- Civilization. *Two hours.*
- Reformation. } *Two hours.*
- France and Germany. }

ECONOMICS. (10 a. m.) *Four hours weekly.*
- Elements of Economics. } *Two hours.*
- Money; Taxation. }
- History of Economic Thought. } *Two hours.*
- Tariff; Transportation. }

ENGLISH LITERATURE. *Three hours weekly.*
- Outline History.
- Critical Study of Important Writers.
- Private Reading.

FRENCH. (12 m.) *Four hours weekly.*
- Hugo, *Hernani;* Molière, *Les Femmes Savantes;* Corneille, *Le Cid;* Sandeau, *Mlle. de la Seiglière;* Dumas, *L'Ami des Femmes;* Scribe, *Bataille des Dames;* De Musset, *On ne Badine pas avec l'Amour;* Rostand, *Cyrano de Bergerac.*
- Short Outline of French Literature (XVII–XIX Centuries).
- Composition and Syntax.
- Exercises in Pronunciation, Recitation, and Conversation; Oral and Written Reports in French; Private Reading.

Third Year.

POLITICS. (12 m.) *Four hours weekly.*
- English Constitutional Law and History.
- American Constitutional Law and History.

PHILOSOPHY. (11 a. m.) *Five hours weekly.*
- Logic, Psychology, and Ethics.

LABORATORY COURSE. *Four hours class-work weekly.*
- Chemistry (9 a. m.), *or* Physics (10 a. m.), *or* Biology (10 a. m.). } Lectures, recitations, and laboratory work.

ELECTIVE COURSE.* *Two hours weekly.*

* For 1901–1902, elective courses are offered in the following subjects: Differential Equations, Zoölogy or Botany, Hebrew, Latin, Greek, German, French, Italian, Spanish, English Literature, History of Philosophy (one hour).

Students who have passed French or German as the principal subject in place of Greek for matriculation, must substitute some other four-hour course.

Seventh Group. (*Modern Languages.*)

First Year.

LATIN. (9 a. m.) *Four hours weekly.*
- Livy (two books).
- Horace (selections).
- Prose Composition.
- Private reading: Cæsar, *Bellum Civile* (book i); Tacitus, *Germania;* Ovid, *Fasti* (selections); Vergil, *Æneid* (books ix, xii).

ENGLISH. (1 p. m.) *Four hours weekly.*
- Early English Texts.
- English Literature.

LABORATORY COURSE. *Four hours class-work weekly.*

Chemistry* (9 a. m.), *or* / Physics (10 a. m.), *or* / Biology (10 a. m.). } Lectures, recitations, and laboratory work.

RHETORIC AND ENGLISH COMPOSITION. (12 m.) *Three hours weekly.*
- Principles of Rhetoric.
- Rhetorical Analysis.
- Practice in Writing.

Second Year.

GERMAN. (11 a. m.) *Four hours weekly.*
- Classics: Schiller, *Maria Stuart;* Goethe, *Hermann und Dorothea.*
- Prose Reading: Chamisso, *Peter Schlemihl;* Baumbach, *Erzählungen und Märchen.*
- Composition; Sight Reading.
- Private Reading: Gutzkow, *Zopf und Schwert.*

HISTORY AND ECONOMICS. (10 a. m.) *Four hours weekly.*
- Historical Politics. *Two hours.*
- Elements of Economics. } *Two hours.*
- Applied Economics. }

FRENCH. (12 m.) *Four hours weekly.*
- Hugo, *Hernani;* Molière, *Les Femmes Savantes;* Corneille, *Le Cid;* Sandeau, *Mlle. de la Seiglière;* Dumas, *L'Ami des Femmes;* Scribe, *Bataille des Dames;* De Musset, *On ne Badine pas avec l'Amour;* Rostand, *Cyrano de Bergerac.*
- Short Outline of French Literature (XVII–XIX Centuries).
- Composition and Syntax.
- Exercises in Pronunciation, Recitation, and Conversation; Oral and Written Reports in French; Private Reading.

ELECTIVE COURSE. *Three hours weekly.*

[See foot-note, page 160.]

Third Year.

A.

FRENCH. (10 a. m.) *Four hours weekly.*
- Nineteenth Century; Classical Drama.
- History of French Literature.
- Nineteenth Century Prose.
- Composition and Idioms.
- Exercises in Pronunciation, Recitation, and Conversation; French Oral and Written Reports and Essays; Private Reading.

or C.

SPANISH. (9 a. m.) *Four hours weekly.*
- Manning's *Spanish Grammar;* Exercises in Composition; History of Spanish Literature.
- Matzke's *Spanish Readings;* Alarcón, *El Capitán Veneno;* Galdós, *Doña Perfecta;* Tamayo, *Un Drama Nuevo.*

PHILOSOPHY. (11 a. m.) *Five hours weekly.*
- Logic, Psychology, and Ethics.

ELECTIVE COURSE. *Two hours weekly.*

[See foot-note, page 160.]

or B.

GERMAN. (11 a. m.) *Four hours weekly.*
- Classics: Goethe, *Faust;* Schiller, *Wallensteins Lager, Piccolomini.*
- Selected Poems.
- History of German Literature.
- Composition and Grammar.
- Private Reading: Schiller, *Wallensteins Tod.*

or D.

ITALIAN. (9 a. m.) *Four hours weekly.*
- Grandgent's *Grammar* and *Composition;* main laws of versification; History of Italian Literature.
- Prose readings: De Amicis, Verga, Serao, Fogazzaro.
- Selected poetry of Dante, Alfieri, Goldoni, Leopardi.

ENGLISH. (12 m.) *Four hours weekly.*
- Anglo-Saxon.
- Early Scottish Poets.
- Elizabethan Literature.
- Literature of the first half of the Nineteenth Century.

* If Chemistry be chosen, it should be taken in the second year, and German in the first year.

Students who have passed French or German as the principal subject in place of Greek for matriculation, must substitute some other four-hour course.

SYNOPSIS OF GROUPS.

Group I.	Group II.	Group III.	Group IV.	Group V.	Group VI.	Group VII.
FIRST YEAR.						
Latin, 9–10. Chemistry, 9–10.* or Biology or Physics } 10–11. Rhetoric, 12–1. Greek, 1–2.	Chemistry, 9–10. German, 11–12. Rhetoric, 12–1. Mathematics.	Chemistry, 9–10. Physics, 10–11. German, 11–12. Rhetoric, 12–1.	Chemistry, 9–10. Physics, 10–11. German, 11–12. Rhetoric, 12–1.	Latin, 9–10. Chemistry, 9–10.* or Biology or Physics } 10–11. Mathematics. Rhetoric, 12–1.	Latin, 9–10. History, 10–11. German, 11–12. Rhetoric, 12–1.	Latin, 9–10. Chemistry, 9–10.* or Biology or Physics } 10–11. Rhetoric, 12–1. English, 1–2.
SECOND YEAR.						
Latin, 10–11. German, 11–12. Greek, 12–1. English Literature.	Mathematics, 9–10. Physics, 10–11. French, 12–1. English Literature.	Chemistry, 9–10. Biology, 10–11. French, 12–1. English Literature.	Biology, 10–11. French, 12–1. Geology, 1–2. English Literature.	Mathematics, 9–10. Latin, 10–11. German, 11–12. English Literature.	Economics, 10–11. History, 11–12. French, 12–1. English Literature.	History and Economics, 10–11. German, 11–12. French, 12–1. Elective Course.
THIRD YEAR.						
History and Economics, 10–11. Philosophy, 11–12. French, 12–1. Comp. Philology. Elective Course.	History and Economics, 10–11. Philosophy, 11–12. Physics, 12–1. Elective Course.	Biology, 9–10. History and Economics, 10–11. Philosophy, 11–12. Elective Course.	History and Economics, 10–11. Philosophy, 11–12. Geology, 12–1. Zoology or Botany (*elective*).†	History and Economics, 10–11. Philosophy, 11–12. French, 12–1. Elective Course.	Chemistry, 9–10. or Physics or Biology } 10–11. Philosophy, 11–12. Political Science, 12–1. Elective Course.	Italian or Spanish, } 9–10. or French, 10–11. or German, 11–12. Philosophy, 11–12. English, 12–1. Elective Course.

* See footnotes on pages 139, 163, 165.
† See footnote on page 162.

HOURS OF COLLEGE COURSES.

Hours.	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.
9	Elective Courses. Mathematics (Minor). English Literature. Mathematics (Prelim.).	Latin (Minor). Chemistry (Minor). Chemistry (Major). Biology (Major). Mathematics (Major). Italian (Minor). Spanish (Minor). French (Elements). German (Elements).	Latin (Minor). Chemistry (Minor). Chemistry (Major). Biology (Major). Mathematics (Major). Italian (Minor). Spanish (Minor). French (Elements). German (Elements).	Latin (Minor). Chemistry (Minor). Chemistry (Major). Biology (Major). Mathematics (Major). Italian (Minor). Spanish (Minor).	Latin (Minor). Chemistry (Minor). Chemistry (Major). Biology (Major). Mathematics (Major). Italian (Minor). Spanish (Minor). French (Elements). German (Elements).
10	Physics (Minor). Biology (Minor). Latin (Major). History and Economics. History (Minor). French (Major). Political Science (Minor). Greek (Preliminary).	Elective Courses. Mathematics (Minor). English Literature. Mathematics (Prelim.).	Physics (Minor). Biology (Minor). Latin (Major). History and Economics. History (Minor). French (Major). Political Science (Minor). Latin (Preliminary).	Physics (Minor). Biology (Minor). Latin (Major). History and Economics. History (Minor). French (Major). Political Science (Minor). Latin (Preliminary).	Physics (Minor). Biology (Minor). Latin (Major). History and Economics. History (Minor). French (Major). Political Science (Minor). Latin (Preliminary).
11	German (Major). German (Minor A). German (Minor B). Philosophy. History (Major).	German (Major). German (Minor A). German (Minor B). Philosophy. History (Major).	Mathematics (Minor). English Literature. Philosophy. Mathematics (Prelim.).	German (Major). German (Minor A). German (Minor B). Philosophy. History (Major).	German (Major). German (Minor A). German (Minor B). Philosophy. History (Major).
12	Greek (Major). French (Minor A). French Minor B). Physics (Major). Political Science (Major). English (Major). Rhetoric. Geology (Major).	Greek (Major). French (Minor A). French (Minor B). Physics (Major). Political Science (Major). English (Major). Rhetoric. Geology (Major).	Greek (Major). French (Minor A). French (Minor B). Physics (Major). Political Science (Major). English (Major). Rhetoric. Geology (Major).	Mathematics (Minor). Elective Courses. Mathematics (Prelim.). Geology (Major).	Greek (Major). French (Minor A). French (Minor B). Physics (Major). Political Science (Major). English (Major).
1	Greek (Minor). English (Minor). Geology (Minor).	Greek (Minor). English (Minor). Geology (Minor).	Greek (Minor). English (Minor). Geology (Minor).	Greek (Minor). English (Minor). Greek (Preliminary). Geology (Minor).	Elective Courses. Greek (Preliminary).

REQUISITES FOR THE DEGREE OF BACHELOR OF ARTS.

As an evidence that the collegiate course has been successfully completed, the degree of Bachelor of Arts is conferred at its close. The degree signifies, in the case of every recipient, such instruction in ancient and modern languages, in mathematics, in the physical and natural sciences, in literature, philosophy, and history, as is believed to be essential to a liberal education. The candidate must, in addition to all the requirements for admission and matriculation, absolve—

(*a*) The following prescribed courses: Rhetoric; English Literature; Economics and History; Philosophy; the minor course* in French and the minor in German; exercises in English Composition, as prescribed by the Collegiate Professor of English; Drawing; Physical and Vocal Culture.

(*b*) Five courses, each occupying four hours weekly for one year, of which at least one must be a major course, and at least one must be a laboratory course†; also an elective course, two hours weekly, during the third year.

In all cases, the candidate must pursue the last year of his undergraduate course in this institution, and must have completed his matriculation before entering upon that year, unless, for special reasons, the Board of Advisers shall have permitted a postponement of some portion of the matriculation requirements. Such special reasons must, in all ordinary cases, be submitted to the Board not later than the close of the year preceding the last; and in no case will they be considered later than October of the last year.

Each instructor files in the office, about the time of the winter and spring recesses and at the close of the year, a report of the progress of each member of his classes, deduced from daily observation, or examinations, or both. These reports are called

*A "minor course" is the first year of instruction in any subject; a "major course" is the second year of instruction.

†If the major course selected be a laboratory course, an additional laboratory course will not be required.

the Intermediate Records. Other reports (*e. g.* of private readings, or of the completion of a particular book or subject) may be made by the instructor at any time.

At the close of the year, the University holds an examination of each class on the whole year's work, known as the University Examination, the reports of which are also put on file in the office.

From the Intermediate Records and the Reports of the University Examination, the Board of Collegiate Advisers causes to be made up an average mark, on the authorized scale, for the work of the whole year, which alone determines the standing of any candidate for honors. This constitutes the Final Record.

The reports of all these examinations are carefully recorded and preserved, and the degree of Bachelor of Arts is conferred only when the records show that the prescribed amount of work has been satisfactorily completed.

Regular attendance upon the prescribed exercises is required. Satisfactory certificates must be presented from the teachers of drawing, physical training, and vocal culture. One or more of the essays which the candidate has written, copied by his own hand in a prescribed style, must be left with the Registrar, before the fifteenth of May preceding graduation, for presentation to the Board of Collegiate Advisers.

No uniform length of residence is prescribed as necessary to the attainment of the bachelor's degree. Students who fully meet, at entrance, the requirements for matriculation (see pages 172–174) and who maintain a satisfactory standing in the full work of each year, may be graduated in three years. Other students will require four years. But a young man who comes with attainments beyond what are required for matriculation, or who possesses unusual ability, may complete the work in less then three years. No one is kept back by the requirements of the ordinary class system.

ADVISERS.

Before an undergraduate student begins his academic work, the President designates one of his principal instructors to act as his Adviser. The approval of the Adviser is necessary before the student can enter upon any course of study; no instructor will receive into a class any student who does not bring with him (in a book provided for that purpose) assurance that his Adviser approves his pursuing the study at that time, and no student is allowed, without the consent of his Adviser, to discontinue any work. Each Adviser endeavors to establish relations of friendliness and confidence with the students assigned to his care; he not only gives counsel in regard to the selection of studies, but promotes the welfare of his students in every practicable way.

REQUIREMENTS FOR ADMISSION.

Those who wish to pursue undergraduate courses are expected to appear at the regular times appointed for examination in June and September. Persons at a distance desiring information are requested to write for a blank form of "Application for Admission," which may be filled up and returned to the University. Upon its receipt, such counsel will be given as the case requires.

(*a*) Matriculated Students.

Students who fully meet, at entrance, the requirements for matriculation (as stated on pages 172–174), and who maintain a satisfactory standing in the full work of each year, may be graduated in three years.

Students who fail to meet, at entrance, the full matriculation requirements, or whose work, after admission, is unsatisfactory, will need a longer period of residence.

The matriculation examination may be divided, and a part of the subjects passed in one year and the rest a year later, according to the regulations prescribed below (see page 175).

When a school, approved by the Academic Council, shall certify that a candidate has satisfactorily completed *all the studies requisite for matriculation*, such candidate will be exempted from examination, except in the following subjects: Trigonometry, Analytic Geometry, Cicero or Vergil (as the candidate may prefer), Latin Prose Composition, Homer or Herodotus (as the candidate may prefer), Greek Prose Composition, the minor courses in French and German, English, and Science. The examination in these subjects may be divided between June and September of the same year, but, except in the case of English, not between successive years.

(*b*) Candidates for Matriculation.

The matriculation examination may be passed, at entrance, by those who have completed the courses now offered in several preparatory schools of Baltimore. Persons taught elsewhere are often unable to obtain instruction in all the subjects requisite for matriculation. To meet the needs of such students, terms of admission are offered (as described on page 175), corresponding to the terms of admission to other colleges of established reputation. Students who satisfy these requirements, may be admitted to the course of study stated on pages 154, 155. In the case of such persons, a residence of four years will be necessary to the attainment of the degree of Bachelor of Arts.

(*c*) Special Students.

The University discourages from entering as special students those who are not qualified, by age, character, attainments, and habits of study, to attend its classes and lectures with profit to themselves and credit to the institution. The authorities are, however, ready to receive as special students, properly qualified persons who have some good reason for not pursuing the full course. A special examination is arranged for such persons (see page 176). Many excellent students have been thus enrolled, among whom not a few have subsequently changed their plans, passed the matriculation examination, and at length received the degree of Bachelor of Arts. The privilege once accorded will be forfeited at any time, if the student is found unworthy of it.

Requirements for Matriculation.

1. *Mathematics.*—Algebra; Plane and Solid Geometry; Plane Trigonometry; Analytic Geometry. A competent knowledge of Arithmetic (including the metric system) is assumed.

The requirements in Algebra include the following subjects:

(*A*). The fundamental rules, use of parentheses, factoring, greatest common divisor, least common multiple, equations of the first degree in one or more unknown quantities, and problems leading to such equations, fractions, inequalities, involution and evolution, theory of exponents, radicals, imaginaries, quadratic equations and problems leading to quadratics.

(*B*). Equations solved like quadratics, simultaneous quadratic equations, theory of quadratic equations, ratio and proportion, the progressions, the binomial theorem, logarithms, permutations and combinations.

The subjects required in Plane and Solid Geometry and in Trigonometry are those treated in the ordinary text-books.

The subjects required in Analytic Geometry are the straight line in rectangular coördinates, transformation of coördinates, loci, and plotting of curves.

Substitutions: Students selecting groups which do not include Minor Mathematics or Major Physics, may, in case they offer Greek for matriculation, substitute the elements of either French or German (4*b* or 5*b*, page 173) for Analytic Geometry; or the elements of both French and German for Plane Trigonometry and Analytic Geometry.

Students selecting groups which do not include Minor Mathematics or Major Physics, may, in case they offer—in place of Greek—French and German (4*a* and 4*b*, or 5*a* and 5*b*, page 173) for matriculation, substitute for Plane Trigonometry and Analytic Geometry (*a*) the Minor Course in Latin, or (*b*) the Minor Course in French or in German.

2. *Latin.*—Cæsar, *Gallic War*, five books; Vergil, *Eclogues* and *Aeneid*, books i–vi; Ovid, 2500 lines; Cicero, the four orations against Catiline, *de imperio Pompeii*, *pro Archia*, and *in Verrem*, *actio I;* translation of easy English prose into Latin.

Substitution: Sallust's *Catiline* may be substituted for the fifth book of Cæsar, and Cicero's *de Senectute* for the *de imperio Pompeii.*

The examination will test the power of exact and idiomatic translation, the knowledge of forms, of syntax, and of prosody. In certain cases a candidate may be allowed to take an oral, instead of a written, examination. If, for instance, he has not been prepared on the books above prescribed, but has read about the same amount in other books, he may be examined on these.

In the case of Cæsar and Ovid, the amount of text above stated should be sufficient to prepare the student to undergo an examination for which, after October, 1901, no attempt will be made to select a passage previously read.

3. *Greek.*—Xenophon, *Anabasis*, books i–iv; Homer, *Iliad*, books i–iv; Herodotus, book vii; translation of easy English Prose into Greek.

Candidates will be expected to show an accurate knowledge of forms, and an acquaintance with the common rules of syntax and accent, and with the prosody of the Homeric poems.

In case any candidate has made his preparation by the study of books other than those named above, or for any reason believes that an oral examination would be for his advantage, he may be examined upon easy passages previously unseen; if he acquits himself well, he will be required to put on paper only the passage given to be translated into Greek prose.

4, 5. *German and French.*—Candidates not offering Greek must offer one of the following combinations. In one of the modern languages the elements are required; in the other, an amount of knowledge equal to that represented by the minor or first year's collegiate course:

4.	5.
(*a*) *German.*	(*a*) *French.*
Edgren and Fossler, *A brief German Grammar.*	Whitney's *Grammar, Parts I and II,* substituting for the exercises of *Part II,* "*Materials for French Composition, Part I,* based on Halévy's *L'Abbé Constantin*" (ed. Grandgent; Heath & Co.)
Vos, *Materials for German Conversation,* pp. 1–35 (I–XLVIII).	Kuhn's *French Reader, Parts II, III, IV;* J. Verne, *Michel Strogoff* (ed. Lewis); Mérimée, *Colomba;* Daudet, *Contes* (ed. Cameron).
Schiller, *Wilhelm Tell* (Clarendon Press, large edition).	Molière, *L'Avare;* Hugo, *Hernani* (ed. Matzke); Augier, *Le Gendre de M. Poirier;* Sandeau, *Mlle de la Seiglière* (ed. Warren).
Goethe, *Egmont* (ed. Buchheim).	
Lessing, *Minna von Barnhelm* (ed. Cutting.)	
Heine, *Harzreise* (Clarendon Press).	
Freytag, *Der Staat Friedrichs des Grossen* (ed. W. Wagner, Pitt Press).	
Prose Composition (Whitney's *Grammar,* Exercises, 2d Series).	
(*b*) *French.*	(*b*) *German.*
Whitney's *Grammar, Part I.*	Edgren and Fossler, *A brief German Grammar.*
Kuhn's *French Reader, Parts II, III, IV;* J. Verne, *Michel Strogoff* (ed. Lewis).	Vos, *Materials for German Conversation,* pp. 1–35 (I–XLVIII).
	von Wildenbruch, *Das edle Blut* (ed. Schmidt).

The amount of German and French accepted as a substitute for Greek at matriculation may not count also as a part of the work required for graduation.

Reading at Sight. The language papers, both ancient and modern, will contain one passage, or more, of moderate difficulty, not included in the prescribed lists. A good handling of passages previously unseen will go far toward compensating for deficiencies in the formal requirements. This does not apply, however, to the examination in the *elements* of French and German.

6. *English.*—The examination will consist of two parts:

I. *Reading.* The candidate will be required to write a paragraph or two on each of several topics chosen by him from a considerable number—

perhaps ten or fifteen—set before him in the examination paper. This part of the examination is designed, primarily, to test the candidate's power of clear and accurate expression, and will call for only a general knowledge of the substance of the books. As additional evidence of preparation, the candidate may present an exercise book, properly certified by his instructor, containing compositions or other written work.

In 1901 and in 1902: Shakespeare's *The Merchant of Venice;* Pope's *Iliad,* Books I, VI, XXII, and XXIV; *The Sir Roger de Coverley Papers* in *The Spectator;* Goldsmith's *The Vicar of Wakefield;* Coleridge's *Ancient Mariner;* Scott's *Ivanhoe;* Cooper's *The Last of the Mohicans;* Tennyson's *The Princess;* Lowell's *The Vision of Sir Launfal;* George Eliot's *Silas Marner.*

In 1903 and in 1904: Shakespeare's *The Merchant of Venice* and *Julius Cæsar; The Sir Roger de Coverley Papers* in *The Spectator;* Goldsmith's *The Vicar of Wakefield;* Coleridge's *Ancient Mariner;* Scott's *Ivanhoe;* Carlyle's *Essay on Burns;* Tennyson's *The Princess;* Lowell's *The Vision of Sir Launfal;* George Eliot's *Silas Marner.*

II. *Study and Practice.* This part of the examination presupposes the careful study of each of the works named below. The examination will be upon subject-matter, form, and structure, and will also test the candidate's ability to express his knowledge with clearness and accuracy.

The books set for this part of the examination will be:—

In 1901, 1902, 1903, and 1904: Shakespeare's *Macbeth;* Milton's *L'Allegro, Il Penseroso, Comus,* and *Lycidas;* Burke's *Speech on Conciliation with America;* Macaulay's *Essays on Milton and Addison.*

The reading and study of the works named above is recommended to all candidates; equivalents will, however, be accepted, provided that the amount of reading be about equally divided between prose and verse.

In connection with the reading and study of the required books, parallel or subsidiary reading should be encouraged, and a considerable amount of English poetry should be memorized. The essentials of English Grammar should not be neglected in preparatory study.

Note.—No candidate will be accepted in English whose work is notably defective in point of spelling, punctuation, idiom, or division into paragraphs.

Although candidates will be permitted to take the entire examination at entrance, it is strongly recommended that Part I be taken as a preliminary examination, and Part II as a final examination. Candidates will thus have an opportunity to make up deficiencies which may be discovered at the preliminary examination, and to enter the University without a condition in English.

7. *History.*—The outlines of the History of England and the United States, or of the History of Greece and Rome, and the outlines of Geography.

8. *Science.*—The elements of Chemistry, Botany, or Physical Geography.

The examination is intended to determine whether the candidate has a knowledge of the elementary facts of one of these sciences, based on practical study. Those who take the examination in Chemistry will be examined in Remsen's "Elements of Chemistry," and will be required to have performed the experiments described in Remsen's "Laboratory Manual," and to present their laboratory note-books for examination. The requirements in Botany include a knowledge of the structure of plants, such as may be obtained from a study of Spaulding's "Introduction to Botany," excluding the microscopic work, and the ability to use Gray's Manual in determining the species of flowering plants. The examination will be mainly practical. In order to absolve the requirements in Physical Geography, the student must pass an examination on Davis's "Physical Geography," or Tarr's "Elementary Physical Geography."

Division of the Matriculation Examination.

A student may pass a part of the matriculation examination one year before his admission to the University, and receive credit for the same under the following conditions:

In his application he must distinctly declare his intention to divide the examination. The subjects thus passed will not count towards matriculation, unless the candidate completes his matriculation the following year. The first part of the divided examination will be confined to the following subjects, of which the candidate will be expected to pass in English (part I), Algebra, one Latin author, and three of the remaining subjects:*

English (Part I).
Algebra (A). (See page 172).
Plane Geometry.
Cæsar, *Gallic War*, five books.
Vergil, *Æneid*, books i–vi.
Xenophon, or French, or German. (See statement below).
History of the United States or of Greece.
History of England or of Rome.
Science.

If French or German is offered in place of Xenophon, the candidate will be examined as follows:

In *German:* Edgren and Fossler, *A brief German Grammar;* Vos, *Materials for German Conversation*, pp. 1–35 (I–XLVIII); Schiller's *Wilhelm Tell;* Prose Composition, sentences of moderate difficulty to be translated into German at sight.

Or in *French:* Whitney's *Grammar, Part I*, with the exercises; Kuhn's *French Reader, Parts II, III, IV;* Mérimée, Sandeau, J. Verne, Augier, Daudet—(as on page 173); Prose Composition, sentences of moderate difficulty to be translated into French at sight.

The whole of the above amounts must be offered.

Requirements for Admission as a Candidate for Matriculation.

1. *Mathematics.*—Algebra (A and B); Plane Geometry (as for matriculation). A competent knowledge of Arithmetic (including the metric system) is assumed.

* Schools approved by the Academic Council, according to the plan described on page 171, may recommend for examination in English (part I), and in Science, candidates who do not wish to attempt the other subjects required in the first part of the divided examination.

2. *Latin.*—Cæsar, *Gallic War*, five books; Vergil, *Aeneid*, books i–vi; Cicero, four orations against Catiline, *de imperio Pompeii*, *pro Archia*; translation of easy English prose into Latin.
3. *Greek.*—Xenophon, *Anabasis*, books i-iv; Homer, *Iliad*, books i–iii; translation of easy English sentences into Greek.
4. *German* and *French* (in substitution for *Greek*):
   German.—Edgren and Fossler, *A brief German Grammar*; Vos, *Materials for German Conversation*, pp. 1–35 (I–XLVIII); von Wildenbruch, *Das edle Blut* (ed. Schmidt).
   French.—Whitney's *Grammar*, *Part I*; Kuhn's *French Reader*, *Parts II, III, IV*; J. Verne, *Michel Strogoff* (ed. Lewis).
5. *English*,—(as for matriculation).
6. *History*,—(as for matriculation).
7. *Science*,—(as for matriculation).

Requirements for Admission as a Special Student.

Before an undergraduate is admitted as a special student, he will be required, unless expressly excused for definite reasons, to pass examinations in the following subjects:

1. *Mathematics.*—Algebra; Plane and Solid Geometry. (As for matriculation). A competent knowledge of Arithmetic (including the metric system) is assumed.
2. *Latin.*—Cæsar, *Gallic War*, five books; Cicero, six orations; Vergil, *Aeneid*, books i–vi, and *Eclogues*.

   Substitution: Students who wish to pursue studies other than linguistic or historical, may substitute for the requirement in Latin the full amount of Mathematics requisite for matriculation (page 172).
3. *Greek.*—Xenophon, *Anabasis*, books i–iv; Homer, *Iliad*, books i, ii.

   Substitution: Students who do not offer Greek, will be examined in French or German as specified under "Division of the Matriculation Examination" (page 175), and in the History of Greek and Rome.
4. *English*,—(as for matriculation).
5. *United States History*,—(as for matriculation).
6. *Science*,—(as for matriculation).

THE JOHNS HOPKINS MEDICAL SCHOOL.

Detailed statements as to the courses of instruction and other information are given in the Annual Announcement of the Johns Hopkins Medical School, which will be sent upon application to the Registrar of the Medical School.

TERMS OF ADMISSION.

The medical department of this university is planned for the professional education of those students who have been especially fitted to receive its instruction by a course of preliminary training in the liberal arts, and especially in those branches of science, like physics, chemistry, and biology, which underlie the medical sciences. Men and women are admitted upon the same terms.

As candidates for the degree of Doctor of Medicine the school receives:

1. Those who have satisfactorily completed the Chemical-Biological course which leads to the A. B. degree in this university.

2. Graduates of approved colleges or scientific schools who can furnish evidence: (*a*) That they have acquaintance with Latin and a reading knowledge of French and German; (*b*) That they have such knowledge of physics, chemistry, and biology as is imparted by the regular minor courses given in these subjects in this university.

The phrase "a minor course," as here employed, means a course that requires a year for its completion. In physics, four class-room exercises and three hours a week in the laboratory are required; in chemistry and biology four class-room exercises and five hours a week in the laboratory, in each subject.

Many inquiries have been received regarding the character and amount of the requisite training indicated by the term "Minor Course" in these sciences. In explanation, it may be stated, with respect to Biology, that the candidates should have followed for at least a year a laboratory course in the structure, life history, and vital activities of selected types of animal and

vegetable life. In the Chemical-Biological course for undergraduates in this university, the laboratory work in biology (Minor Course) at present includes the study of such types as amœba, hæmatococcus, yeast, penicillium, bacteria, mushroom, hydra, vorticella, a fern, a flowering plant, the earthworm, lobster, anodon; the gross and minute anatomy of the frog, the development of its eggs, the structure, formation, and metamorphoses of the tadpole; dissection of a mammal; the field and laboratory study of some few flowering plants. The laboratory work is the more important part, the lectures and other exercises subsidiary. It is, of course, not to be understood that this curriculum of biological work must be rigidly followed. Equivalent work will be accepted.

The candidate should have followed a course in general Chemistry for at least a year. This course should include laboratory work, about five hours a week through the year, and lectures and class-room work covering the outlines of inorganic chemistry and the elements of organic chemistry. A good knowledge of the subject as presented in Remsen's "Introduction to the Study of Chemistry" may be regarded as the minimum requirement. A fuller knowledge of Chemistry is desirable.

In Physics, the candidate should have followed a collegiate course for at least one year. This should include four hours a week of class-room work and at least three hours a week of quantitative work in the laboratory. Special attention should be given to theoretical mechanics and to the mechanical and electrical experiments.

3. Those who give evidence by examination that they possess the general education implied by a degree in arts or in science from an approved college or scientific school, and the knowledge of French, German, Latin, physics, chemistry, and biology above indicated.

Applicants for admission will receive blanks to be filled out relating to their previous courses of study.

They are required to furnish certificates from officers of the colleges or scientific schools where they have studied, as to the courses pursued in physics, chemistry, and biology. If such certificates are satisfactory, no examination in these subjects will be required from those who possess a degree in arts or in science from an approved college or scientific school.

Candidates who have not received a degree in arts or in science from an approved college or scientific school, will be required (1) to pass, at the beginning of the session in October, the matriculation examination for admission to the collegiate department of the

Johns Hopkins University; (2) then to pass examinations equivalent to those taken by students completing the Chemical-Biological course which leads to the A. B. degree in this University; and (3) to furnish satisfactory certificates that they have had the requisite laboratory training as specified above.

Hearers and special workers, not candidates for a degree, will be received at the discretion of the Faculty.

Admission to Advanced Standing.

Applicants for admission to advanced standing must furnish evidence (1) that the foregoing terms of admission as regards preliminary training have been fulfilled, (2) that courses equivalent in kind and amount to those given here, preceding that year of the course for admission to which application is made, have been satisfactorily completed, and, (3) must pass examinations, at the beginning of the session in October, in all the subjects that have been already pursued by the class to which admission is sought. Certificates of standing elsewhere cannot be accepted in place of these examinations.

GENERAL PLAN OF INSTRUCTION.

The course of instruction is planned for those who have received a liberal education and the training in physics, chemistry, and general biology which has been specified. The required period of study for the degree of Doctor of Medicine is four years. The academic year begins on the first of October and ends about the middle of June. There are short recesses at Christmas and Easter.

The first two years of the course are devoted mainly to the fundamental medical sciences, a large part of the time being spent in practical work in the laboratories. In the latter two years, medicine, surgery, obstetrics, and the various specialties are studied in the clinical laboratories, the dispensary, and the wards of the hospital.

The principal studies of the first year are anatomy, including normal histology, microscopic anatomy, embryology, physiology, and physiological chemistry. The study of anatomy and physi-

ology is continued in the second year. Throughout the second year general pathology, pathological anatomy, and pharmacology are studied. A practical course in bacteriology, with the chief emphasis upon its hygienic and pathological bearings, is given during three months of this year.

Upon the basis of thorough training in the medical sciences, pursued during the first two years of the course, the student should now be well fitted to undertake the study of practical medicine and surgery.

During the third year the general principles of medicine, surgery, and obstetrics are studied, and clinical instruction in medicine and surgery is given. The study of certain special branches of medicine is also begun. Leading features of the work of this year are the courses in the clinical laboratories and practical work in the dispensary.

During the fourth year the practical study of medicine, surgery, and obstetrics is continued, and instruction is given in gynecology and in the various special branches of medicine and surgery, viz: dermatology, diseases of the nervous system, genito-urinary diseases, laryngology, ophthalmology and otology, paediatrics, and psychiatry. In this year the students serve as clinical clerks and surgical dressers in the wards of the hospital and are in daily attendance at special classes in the dispensary. They also attend cases of labor in the obstetrical wards of the hospital, and, under proper supervision, in the homes of patients. For the ward and dispensary work the class is divided into small groups.

Instruction in hygiene, medical zoölogy, forensic medicine, and medical history is provided during the course.

Work in the dissecting room, in the laboratory, and at the bedside, demonstrations, clinics, lectures, and recitations are the main features of the methods of instruction. Simply didactic lectures occupy a subsidiary position, as compared with instruction by recitations and demonstrations and especially by practical work in the various laboratories, in the hospital wards, and in the dispensary. In consequence of the high standard of admission, the classes are not likely to be excessively large, and abundant opportunity is therefore afforded for practical work for each student and for personal contact between teacher and student.

SPECIAL COURSES FOR GRADUATES IN MEDICINE.

Special courses of instruction for graduates in medicine are given during the months of May and June. These courses are in Pathology, Bacteriology, Clinical Microscopy, Medicine (including Diseases of Children and of the Nervous System), Surgery, Gynecology and the various special branches in Medicine. The instruction is intended to meet the requirements of practitioners of medicine, and is almost wholly of a practical character. It includes laboratory courses, demonstrations, bed-side teaching, and clinics in the wards, dispensary, amphitheatre, and operating rooms of the hospital, together with special courses of lectures on topics of general interest. A preliminary course in normal histology for physicians is given during April.

FELLOWSHIPS.

I. Fellowships by Courtesy.

The Academic Council, may at their discretion, by special vote, enroll as Fellows by Courtesy—

(*a*) Gentlemen who are or who have been teachers in colleges and other like institutions, and who wish, for brief periods, to avail themselves of the opportunities here afforded for study and for the use of books and laboratories.

(*b*) Holders of fellowships in other colleges, during their residence here.

(*c*) Those who have been fellows of this University and desire to continue in residence.

Fellows by Courtesy will not be exempt from the payment of fees, except by a special vote.

II. Fellowships.

Twenty fellowships, each yielding five hundred dollars but not exempting the holder from the charges for tuition, are annually awarded in this University.

The system of fellowships was instituted for the purpose of affording to young men of talent from any place an opportunity of continuing their studies in the Johns Hopkins University, while looking forward to positions as professors, teachers, and investigators, or to other literary and scientific vocations. The fellowships are given to young men who wish to follow systematically through the year the instructions of the teachers here engaged, and those who are appointed are expected to proceed to the degree of Doctor of Philosophy. The appointments are not made as rewards for good work already done, but as aids and incentives to good work in the future; in other words, the fellowships are not so much honors and prizes bestowed for past achievements, as helps to further progress and stepping-stones to honorable intellectual careers. They are not offered to those who are definitely looking forward to the practice of

any one of the three learned professions (though such persons are not formally excluded from the competition), but are bestowed almost exclusively on young men desirous of becoming teachers of science and literature, or proposing to devote their lives to special branches of learning which lie outside of the ordinary studies of the lawyer, the physician, and the minister. Appointments are rarely if ever made of graduates of more than five years' standing.

Each candidate is expected to submit his college diploma or other certificate of proficiency from the institution where he has been taught, with recommendations from those who are qualified to speak of his character and attainments. But this is only introductory. He must also submit, orally or in writing, such evidence of his past success in study and of his plans for the future, together with such examples of his literary or scientific work, as will enable the professors to judge of his fitness for the post. The examination is, indeed, in a certain sense competitive; but not with uniform tests, nor by formal questions submitted to the candidates. First, the head of a given department considers, with such counsel as he may command, the applicant's record. The professors then collectively deliberate on the nominations made by individual members of their body. The list upon which they agree, with the reasons for it, is finally submitted by the President of the University to the Executive Committee, and by them to the Trustees for final registration and appointment. By all these precautions the highest results which were anticipated have been secured. A company of most promising students has been brought together, and their ability as teachers and scholars has been recognized by the calls they have received to permanent and desirable posts in variou parts of the country.

The number of applications for fellowships has hitherto been very large, and it may have happened that some candidates have failed of appointment who were really superior to those selected. But, if so, this has resulted from the fact that a considerable number of applicants have each year forwarded to the University merely testimonials from their instructors, without any such examples of their own work as have been mentioned above; and, in consequence, the professors, from want of adequate knowledge have possibly passed over candidates who may have been in the highest degree meritorious.

The applicants are notified of the result by means of a printed list of the successful candidates.

The absence of candidates from Baltimore has been no bar to their appointment, in cases where adequate evidence of their claims has been presented; but it is obvious, from the nature of the case, that graduate students residing in Baltimore must have better opportunities than others of making known their powers to the appointing board, and during the last few years the number of persons appointed, who had not previously been resident here, is very small.

Regulations.

1. The application must be made prior to May 1, in writing, addressed to the President of the University, and he will refer the papers to the Academic Council, by whom the nominations will be made to the Board of Trustees, at their meeting in June. There is no prescribed form of application.

2. The candidate must give evidence of a liberal education, such as the diploma of a college of good repute; of decided proclivity towards a special line of study, such as an example of some scientific or literary work already performed; and of upright character, such as a testimonial from some instructor.

3. The value of each fellowship is five hundred dollars, The holder is not exempt from the charges for tuition. In case of resignation, promotion, or removal from the fellowship, payments will be made for the time during which the office shall have been actually held.

4. Every holder of a fellowship will be expected to perform such duties as may be allotted to him in connection with his course of study, to act when called upon as an examiner or as moderator in the examination-room, to give all his influence for the promotion of scholarship and good order, and in general to co-operate in upholding the efficiency of the University, as circumstances may suggest. He must reside in Baltimore during the academic year.

5. He will be expected to devote his time to the prosecution of special studies (not professional), under the direction of the head of the department to which he belongs, and before the close of the year to give evidence of progress by the preparation of a

thesis, the completion of a research, the delivery of a lecture, or by some other method.

6. He may give instruction, with the approval of the President, by lectures or otherwise, to persons connected with the University, but he may not engage in teaching elsewhere.

7. He may be reappointed at the end of the year, but only for exceptional reasons.

8. Usually not more than two fellows will be appointed in any department of study.

9. As these fellowships are awarded as honors, those who are disposed, for the benefit of others, or for any other reason, to waive the pecuniary emolument, may do so, and still have their names retained on the honor list.

III. Adam T. Bruce Fellowship.

This fellowship was founded in 1887 by the mother of Adam T. Bruce, Ph. D., late Fellow and Instructor in this University, as a memorial of her son, and is awarded annually. It is bestowed by the appointing board upon the candidate whom they consider most likely to promote biological science, and especially animal morphology, by original research. The stipend is the income of the Adam T. Bruce Fellowship endowment of ten thousand dollars. Preference is given to those who have already held fellowships in the Johns Hopkins University.

The electors consist of the President of the University, the chief instructor in animal morphology, the chief instructor in animal physiology, and a non-resident member annually chosen by the resident electors.

Appointments already Made.

1888. Henry Van Peters Wilson, Ph. D.
1889. Shozaburo Watase, Ph. D.
1890. Thomas Hunt Morgan, Ph. D.
1891. Robert Payne Bigelow, Ph. D.
1892. Robert Payne Bigelow, Ph. D.
1893. Maynard Mayo Metcalf, Ph. D.
1894. Ross Granville Harrison, Ph. D.
1894. Seitaro Goto, M. S.
1895. Henry McElderry Knower, Ph. D.
1895. George Lefevre, Ph. D.
1896. George Lefevre, Ph. D.
1897. Franklin Story Conant, Ph. D.

1897. Duncan Starr Johnson, Ph. D.
1898. Gilman Arthur Drew, Ph. D.
1899. Caswell Grave, Ph. D.
1900. Caswell Grave, Ph. D.
1900. Lawrence Edmonds Griffin, Ph. D.

REGULATIONS.

Candidates for the Bruce Fellowship must make application, in writing, to the President of the Johns Hopkins University before the first of May of the year of their candidature. They must forward to the President, at the same time, such evidence of their qualifications for appointment as they desire to be considered by the electors.

The electors may require any candidate to appear before them in person.

The Bruce Fellow shall devote his time to study and research in Biology at a place approved of by the President of the University, and he shall, during the month of February in the year of his tenure of the fellowship, send to the President a written statement of the scientific work accomplished by him since his appointment.

The tenure of the fellowship shall commence on the first of September in the year of appointment.

Two hundred and fifty dollars shall be paid to the Fellow on October 1, and the remainder at convenient intervals during his tenure of the fellowship.

The holder of the Bruce Fellowship shall not be more than thirty years of age at the date of his election.

The Bruce fellow may be re-elected, but not oftener than twice.

The holder of the fellowship shall be exempt from charges for tuition.

The electors shall have the power to declare the fellowship vacant if its holder prove, in their opinion, unworthy; and no further stipend shall be paid to such person.

IV. WILLIAM S. RAYNER FELLOWSHIP.

The Rayner Fellowship was founded by Mrs. Bertha Rayner Frank and Mr. Albert W. Rayner, of Baltimore, to perpetuate in this University the name of their father, Mr. William S. Rayner, who had made unusual attainments in the Hebrew language and was interested in the promotion of Semitic studies. The gift amounted to ten thousand dollars, and the income is annually available for a fellowship, which is bestowed annually by the Academic Council upon an advanced student in the department of the Semitic Languages.

APPOINTMENTS ALREADY MADE.

1899. Karl Josef Grimm, Ph. D.
1900. Karl Josef Grimm, Ph. D.

SCHOLARSHIPS.

[Regulations approved by the Trustees April 8, 1899, on the recommendation of the Academic Council, the Board of University Studies, and the Board of Collegiate Advisers.]

I. University Scholarships.

For the encouragement of scholarship among those who have taken the baccalaureate degree and wish to continue their studies here, a certain number of university scholarships are annually bestowed, as stated below:

1. A number, not exceeding five, are awarded at the opening of the academic year, by the Board of University Studies, to young men who completed their undergraduate course in this University at the close of the preceding session and received honors at Commencement.

2. Ten are open about the first of January to graduates of this or of other institutions, who have been studying here during the previous part of the session. Those who wish to be candidates must address their applications to the President of the University, who will appoint a committee of five to consider the applications, and with the aid of such evidence as may be obtained, to make nominations to the Board of University Studies.

3. These scholarships entitle the holders to free tuition, and are tenable for one year. They do not carry exemption from laboratory fees.

4. They are awarded as honors, and those who are disposed, for the benefit of others or for any other reason, to waive the pecuniary emolument, or who are desirous of studying elsewhere, may do so and still have their names retained on the honor list. Those who receive the emolument will be expected to pursue their studies exclusively in this University.

5. The Board will reserve appointments, if worthy candidates do not offer.

II. Hopkins Scholarships.

In the will of the founder of the University, his Trustees are requested to "establish, from time to time, such number of free scholarships in said University as may be judicious, and to distribute the said scholarships among such candidates from the States of Maryland, Virginia, and North Carolina, as may be most deserving of choice, because of their character and intellectual promise, and to educate the young men so chosen free of charge."

Forty-five such scholarships, entitling the holders to free tuition, will be bestowed for the next academic year,—upon fifteen students from each of the three States named.

Students can be recognized as candidates only when actual residents of the State from which they desire to be appointed, during at least the year next preceding their enrolment in the University. If the appointing board is not sure as to the legal residence of any candidate, the point in question shall be determined by the Executive Committee of the Board of Trustees.

These scholarships are all bestowed for merit, and are tenable for the year subsequent to the appointment, the holders being re-eligible.

Successful candidates who are disposed, for the benefit of others or for any other reason, to waive the pecuniary emolument, may do so, and still have their names retained on the honor list. The scholarships may be forfeited because of frequent or prolonged absence, defective scholarship, or unworthy conduct.

Scholarships made vacant by resignation, by forfeiture, or by the non-appearance of worthy candidates at the regular times of selection, may be bestowed by the appointing board, at their discretion, upon other candidates who are found worthy, provided that the principles of this foundation are not departed from.

Holders of scholarships are not exempt from laboratory fees.

Scholars from Maryland.

These scholars are appointed by the Board of Collegiate Advisers, in accordance with the following regulations. No one will receive the honor whose standing as a whole is lower than "*good.*"

1. Five scholarships are open, at the beginning of the session, to those who have just completed their matriculation examination,

and who stand best in a subsequent special examination in mathematics, Latin, and Greek (or French and German).

2. Five are awarded in June to those matriculated students whose records in the studies of the first year are most creditable. By "studies of the first year" is meant either the studies laid down for the first year in one of the regular groups, or such other studies, covering fifteen hours of class-room work weekly, as may be approved of by the Adviser.

3. Five are awarded for excellence in the studies of the second year, upon the same terms as in the case of the first year; provided that the candidate shall have absolved the studies of the first year as above defined.

Scholars from North Carolina and Virginia.

Fifteen Hopkins Scholarships are awarded by the Academic Council to students from Virginia, and fifteen to students from North Carolina, who have already received a creditable baccalaureate degree or its equivalent. In case the entire number of scholarships are not required for graduate students, those that remain may be awarded to undergraduates, in the order of their merit. Applications, in writing, should be filed at the President's office prior to June 1.

III. Washington Scholarships.

The Trustees offer to residents of the District of Columbia two scholarships, yielding free tuition. These, like the Hopkins Scholarships, are awarded to undergraduate students for merit, do not carry exemption from laboratory fees, and are tenable for one year, the holders being eligible for re-appointment.

IV. Woodyear Scholarships.

These scholarships were founded in 1893 by Mrs. William E. Woodyear, of Baltimore, as a memorial of her husband. They are five in number—of the value of one hundred dollars each,—and are awarded annually for exceptional merit among those who need pecuniary assistance. They are offered primarily to undergraduates.

V. Maryland Scholarships.

The University offers to young men of Maryland needing pecuniary assistance twenty undergraduate scholarships,—in addition to the fifteen Hopkins Scholarships, which will be awarded, as heretofore, to residents of Maryland. The offer is made for the academic year beginning in September, 1901.

These scholarships entitle the holders to free tuition and are tenable for one year. They do not carry exemption from laboratory fees.

The scholarships are for the benefit of all parts of the State, and accordingly not more than half the number will be awarded to residents of the city and county of Baltimore, and not more than one-half to those who are now members of the University. The appointing board consists of the President of the Board of Trustees, the President of the University, and the Dean of the Collegiate Department. The usual entrance examinations must be passed by the candidates.

Charges for Tuition, Laboratory Expenses, etc.

A.

FOR ALL COURSES EXCEPT THE MEDICAL.

I. *Tuition Fees.*

The charge for tuition is one hundred and fifty dollars per annum, payable at the Treasurer's office in semi-annual instalments, October 1 and February 1. There is no extra charge for instruction in any department of study, for lectures, or for the use of the library and reading-room. A gymnasium fee of five dollars per annum is charged to every undergraduate during his residence in the University, and the money thus acquired is devoted to defraying the expenses of the University Athletic Association. Graduate students who use the gymnasium, are also required to pay this fee. Fees are charged, as below stated, for material consumed in the laboratories, for registration, and for diplomas.

No deduction is made at the Treasurer's office because of absence for a period of less than half a year, or because a student gives only a part of his time to study, or because he belongs to but one class. Prompt payment of fees is required.

II. *Registration Fee and Caution Money.*

Every student (including Fellows, Fellows by Courtesy, workers in the laboratories, and attendants upon lectures) pays a registration fee of five dollars and deposits ten dollars as caution money at the time of his enrolment. The caution money is repaid to the student when he leaves the university, if there are no charges against him.

III. *Fees for Attendants on Single Courses.*

Students engaged in other pursuits—clergymen, lawyers, teachers, and other such persons—*who are not candidates for a degree*, are allowed to follow certain courses, not exceeding five lectures weekly, on the payment, at entrance, of fifty dollars,

besides the registration fee and caution money. They are not regarded as members of the University, but are enrolled as "attendants upon lectures," and are entitled only to such privileges as they have paid for. Persons who desire to be so enrolled are required to make a special written application to the Registrar.

IV. *Graduation Fees.*

The graduation fees are as follows, payable before the delivery of diplomas:

Doctor of Philosophy, ...	$10.00
Bachelor of Arts, ...	5.00

V. *Laboratory Charges.*

In Chemistry: For undergraduates and for graduates who take Chemistry as a subordinate subject, twenty-four dollars a year; for graduates and special students following Chemistry as their principal subject, thirty-six dollars a year. For a half-year, the fee is one-half of these amounts.

In Physics: For students who work one afternoon a week, twelve dollars a year; for those who work two afternoons a week, twenty-four dollars a year; for those who take Physics as their principal subject, thirty-six dollars a year. For a half-year, the fee is one-half of these amounts.

In Biology: For students who work one afternoon a week, twelve dollars a year; for undergraduates and for graduates who take Zoölogy or Physiology as a subordinate subject, twenty-four dollars a year; for graduates and special students following a biological science as their principal subject, thirty-six dollars a year. For a half-year, the fee is one-half of these amounts.

In Geology: For graduates, ten dollars a year.

In all the laboratories, a charge is made for breakage and for apparatus not returned in good condition.

Exception to these charges can be made only at the written request of the Director of a laboratory, approved by the President of the University.

Fellows by Courtesy and others who have the privileges of guests in the various laboratories, are expected to pay the usual laboratory charges.

Doctors of Philosophy of this University who desire to remain for a time in the University after having received their diplomas, may do so without charge for tuition, but they are required to pay the usual laboratory charges.

B.

I. Candidates for the Degree of M. D.

The charge for tuition is two hundred dollars per annum, payable at the Treasurer's office or at the office of the Registrar of the Medical School, in semi-annual instalments, October 1 and February 1. There are no extra charges for matriculation, for graduation, for instruction in any department, or for laboratory courses, except for breakage and in certain cases for special materials consumed. To a student who does not possess a microscope, there is an annual charge of five dollars for the use of one, with an additional charge of two dollars for the use of an oil-immersion lens. One dollar is charged for the rental of a dissecting microscope for one year. The student is responsible for damage to the microscope thus rented.

A deposit of ten dollars as caution money is required from each student at the time of his enrolment. The caution money is repaid the student when he leaves, if there are no charges against him. Special charges are made for breakage and for damage to apparatus.

II. Graduates attending Special Courses in Medicine.

Graduates of medical colleges may be admitted to single courses on the payment of the fees below named:

Medicine,	$50
Surgery,	50
Gynecology,	50
Clinical Microscopy,	50
Pathological Histology (including post-mortem examinations and pathological demonstrations),	50
Bacteriology,	50
Advanced and Special Work,	25
Preliminary Course in Normal Histology,	25

Any two of these courses may be taken on the payment of a fee of $75, and any three on the payment of a fee of $100.

In the Pathological, Bacteriological, and Clinical Laboratories special charges are made for breakage and for damage to apparatus. A deposit of ten dollars as caution money is required, which is returned when the student leaves, if there are no charges against him.

Before entering upon any course of instruction in the Medical School, the student must obtain from the Dean of the Medical School, or his representative, a card certifying that he is qualified to follow the desired course. This card will be issued upon the payment of the requisite fee, and it must be presented to the instructors in the various courses at the beginning of the class work. Fees are payable at the Treasurer's office or at the office of the Registrar of the Medical School.

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